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ABSTRACT

"ARL Statistics 1997-98" is part of a series of annual publications that describe collections, staffing, expenditures, and service activities for the 122 member libraries of the Association of Research Libraries (ARL). The first section of the report includes several illustrative charts and discusses service trends (1991-1998); the decline of ownership, and monograph and serial costs in ARL libraries (1986-1998); the promise of access, and supply and demand in ARL libraries (1986-1998); expenditure trends in ARL libraries (1986-1998); and resources per student in ARL libraries (1986-1998). The body of the publication consists of ARL library data tables for 1997-98 that provide statistics and summary data on collections, expenditures, and personnel and public services. An analysis of selected variables of ARL university libraries for 1997-98 and Ph.D., faculty, and enrollment statistics are given, followed by 18 rank order tables of university libraries for 1997-98. The ARL Statistics Questionnaire, footnotes to the ARL statistics, a list of ARL member libraries, and bibliography are included at the end of the document. (AEF)

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ARL Statistics 1997-98

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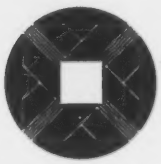

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The following datafiles with accompanying documentation are available from the ARL Publications Office for $15.00 each:

- *Research Library Statistics, 1907-08 through 1991-92*
- *ARL Statistics 1992-93*
- *ARL Statistics 1993-94*
- *ARL Statistics 1994-95*
- *ARL Statistics 1995-96*
- *ARL Statistics 1996-97*
- *ARL Statistics 1997-98*

The quantitative rank order tables presented in this publication are not indicative of performance and outcomes and should not be used as measures of library quality. In comparing any individual library to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and characteristics.

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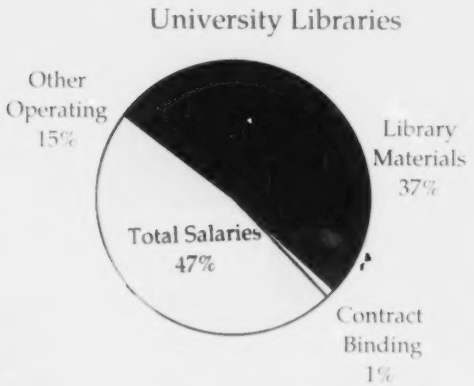
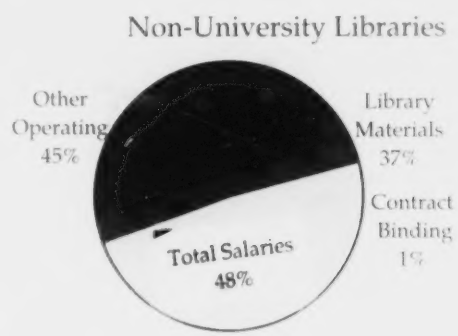
INTRODUCTION

ARL Statistics 1997-98 is the latest in a series of annual publications that describe collections, staffing, expenditures, and service activities for the 122 member libraries of the Association of Research Libraries (ARL). Of these, 111 are university libraries, including George Washington, which became a member of ARL in 1998; the remaining 11 are public, governmental, and private research libraries. A complete list of the ARL member libraries is provided as Appendix A. ARL member libraries are the largest research libraries in North America, representing 15 Canadian and 107 U.S. research institutions. The academic libraries, which comprise about 91% of the membership, include 13 Canadian and 98 U.S. libraries.

Statistics have been collected and published annually for the members of the Association of Research Libraries since 1961-62, and the data are now available through a WWW interactive interface.[1] Prior to 1961-62, annual statistics for university libraries were collected by James Gerould, who was first at Minnesota and later at Princeton.[2] These data, covering the years 1907-08 through 1961-62, are now called the Gerould statistics.[3] The whole data series from 1908 to the present represents the oldest and most comprehensive continuing library statistical series in North America. Machine readable datafiles dating from 1908 are available through the interactive site or on the ARL ftp server.[4] For more information on the electronic editions of the *ARL Statistics*, see page 19.

ARL libraries are a relatively small subset of the research libraries in North America, but they do account for a large portion of academic library resources in terms of assets, budgets, and the number of users they serve. The total library expenditures spent by all 122 member libraries in 1997-98 was about $2.6 billion, and from that about $1.9 billion was spent by the 111 university libraries and $660 million by the 11 nonuniversity libraries.





[1] <http://fisher.lib.virginia.edu/newarl/>

[2] Kendon L. Stubbs and Robert E. Molyneux, *Research Library Statistics 1907-08 through 1987-88* (Washington, DC: Association of Research Libraries, 1990).

[3] Robert E. Molyneux, *The Gerould Statistics 1907/08-1961/62*. (Washington, DC: Association of Research Libraries, 1986). <http://fisher.lib.virginia.edu/gerould/index.html>

[4] <http://www.arl.org/stats/arlstat/mrstat.htm>

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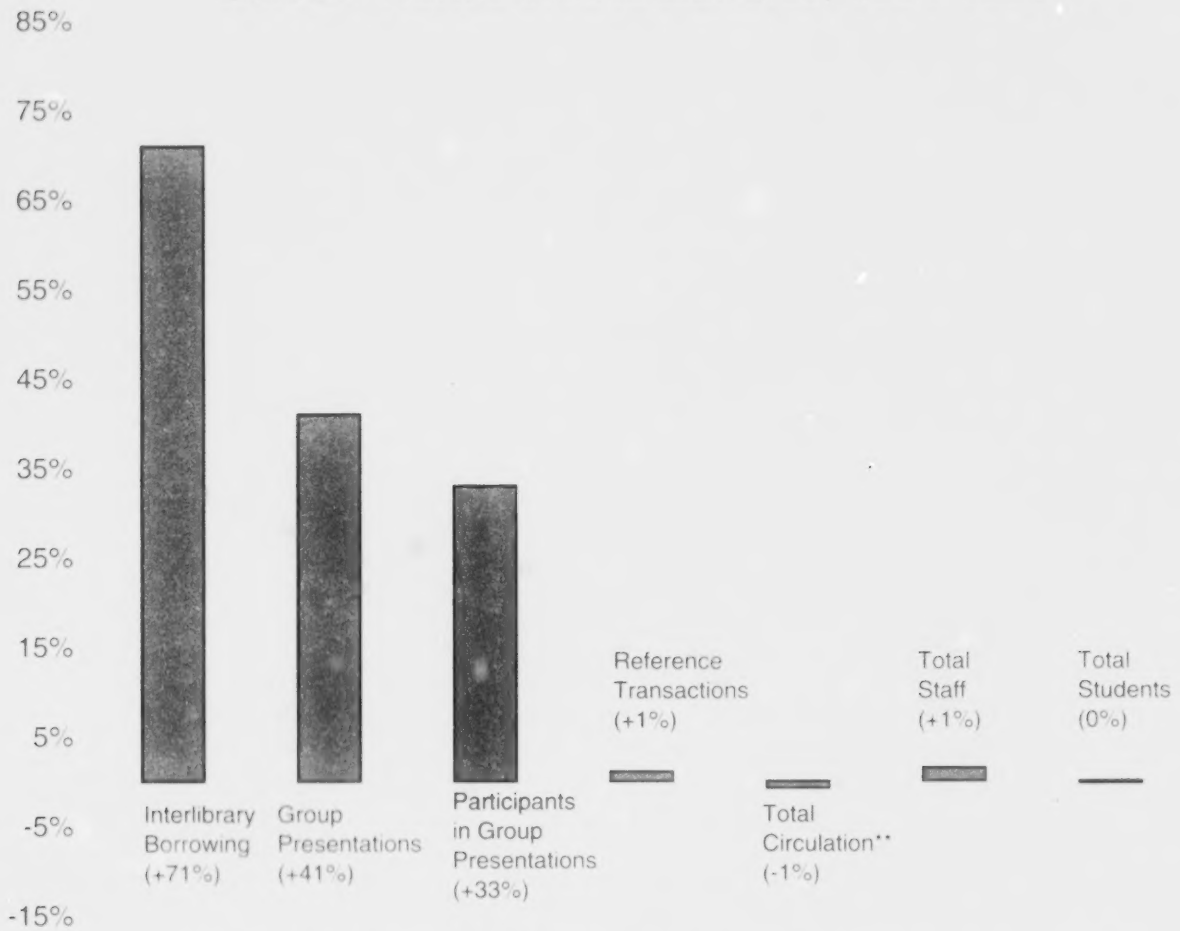
SERVICE TRENDS

The success of an academic library is dependent not only on the information resources owned or licensed but also on the services provided. ARL collects data about public service activities such as circulations (initial and total), reference transactions, library instruction (group presentations and participants in these presentations), and interlibrary borrowing and lending (see Table 1). These data, rather than being comprehensive for the range of library user-initiated activities, represent select service areas. Readers should be cautious when they use these data for comparisons across institutions, because local policies can influence the level of service activities. For example, loan periods, which are usually determined by local policies, vary widely among libraries; thus, a library with a shorter loan period will report a larger number of circulation transactions than will a library with a longer loan period other things being equal.

Graph 1

Service Trends in ARL Libraries, 1991-1998



** Total Circulation includes Initial and Renewals but excludes Reserve Circulation

With this in mind, it is useful to look at the trends of these select services assuming that changes in policies and other conditions affecting measurement of services are random rather than systematic in one direction or another. Table 1 indicates that there was a significant increase in the total number of services delivered to users from 1991 to 1996 with no parallel staff increases. Starting in 1996 reference and circulation services have dropped back to the 1991 levels of activity whereas library instruction and interlibrary borrowing continue to grow more or less at the same rate.

Table 1
Service Trends in ARL Libraries, 1991-1998
Median Values for Time-Series Trends

Year	Interlibrary Borrowing	Group Presentations	Participants In Group Presentations	Reference Transactions	Total Circulation	Total Staff	Total Students
(No. of Libraries)	(106)	(87)	(85)	(83)	(87)	(106)	(106)
1991	10,342	512	7,151	131,441	501,128	271	18,290
1992	11,318	535	7,383	132,574	536,039	267	18,273
1993	12,486	620	7,752	139,044	559,383	263	18,450
1994	13,996	569	7,936	152,706	570,671	266	18,287
1995	14,403	683	8,527	149,326	575,731	267	18,089
1996	15,259	713	8,449	157,275	556,658	265	18,269
1997	16,362	731	9,124	154,668	519,954	273	18,063
1998	17,684	722	9,511	132,850	497,286	275	18,245
Annual average percent change	8.0%	5.0%	4.2%	0.2%	-0.1%	0.2%	0.0%

There were 74 libraries that experienced a drop in the number of reference transactions over the last year and 67 libraries that experienced a drop in their total circulation figures. Further analysis of these dropping figures indicates that there is no relation between the declining reference and circulation figures.

Regarding the recent decline of the number of reference transactions, a variety of explanations has been offered by the people in the field. The 1991-1996 increases heightened the pressure of providing reference service that may have negatively impacted services especially at those places where there was no parallel increase in the staffing levels. Many libraries are making a concerted effort to look into how user needs are changing and reference services in general. Heavy users of library materials and services may make fewer trips to the library than was the case before the availability of distributed online catalog, remote access to indexing and abstracting databases, and increasingly, electronic full-text resources. Often, though, those people who do show up at the library or reference doorstep require more assistance than before. At the same time, electronic and email reference are adding another dimension into the growing complexity of responding to reference questions. Libraries have instituted initiatives with a deliberate emphasis on the direct contact between subject specialists and departments (shifting research consultation activity away from desk based service). Thus a simple count where each question gets a single "tally" cannot capture the varying dimensions and growing complexities of the reference services. In summary, while patterns of behavior are changing, the overall numbers have remained in the range between 130,000 to 150,000 questions a year for the median ARL library ever since 1991.

Another indicator of the changing user needs is the constant growth of library instruction and interlibrary borrowing services. Demand for library user education and interlibrary borrowing has never been higher. In only six years, instructional sessions (group presentations) have risen by 41%, participants in these sessions by 33%, and interlibrary borrowing by 71%. The growth rates have remained relatively constant for these services since 1991.

Perhaps of most interest is the fact that, by 1998, out of the instructional sessions conducted in a typical ARL library, more than one out of every four had been added since 1991. The typical ARL library offered over 722 "teaching" sessions during 1997-98. If we assume that each session was an hour long or more, then, on the average, the typical library offered the equivalent of 16 three-hour credit courses last year. Each course was attended by 13 to 14 people for a median number of 9,500 people receiving formal education through library instruction in a typical ARL library.

The Decline of Ownership

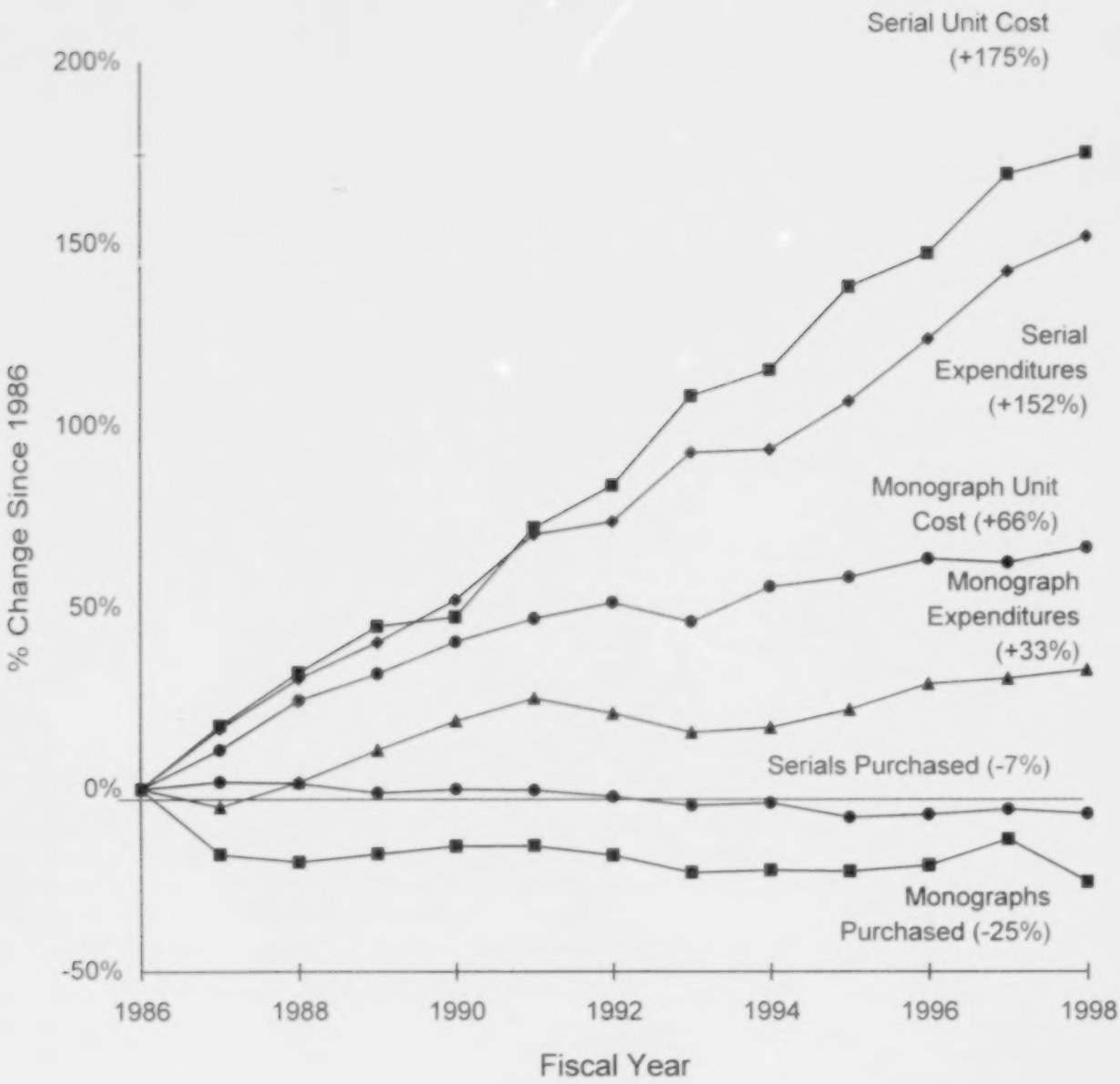
While the demand for library services is increasing drastically, library budgets are struggling to keep up with serial and monograph cost increases (Graph 2, "Monograph and Serial Costs"). As serial prices grow, libraries must spend rapidly increasing amounts of money to sustain their serial subscriptions (Graph 4), subscriptions that have suffered various waves of cancellations. Monographic acquisitions also indicate a similar pattern, with slightly lower cost increases compared to serials, but larger declines in acquisition rates. At the same time, services such as interlibrary loan are used more heavily, as shown in Graph 3, "Supply and Demand." Consequently, "Resources per Student" are reduced, while service activity is increasing, as is shown in Graph 5.

Table 2
Monograph and Serial Costs in ARL Libraries, 1986-1998
Median Values for Time-Series Trends

Year	Serial Unit Cost	Serial Expenditures	Monograph Unit Cost	Monograph Expenditures	Serials Purchased	Monographs Purchased
(No. of Libraries)	(43)	(103)	(63)	(99)	(43)	(63)
1986	$88.81	$1,517,724	$28.65	$1,120,645	16,198	33,210
1987	$104.30	$1,770,567	$31.76	$1,064,484	16,518	27,214
1988	$117.25	$1,979,604	$35.63	$1,141,226	16,443	26,541
1989	$128.47	$2,130,162	$37.74	$1,241,133	16,015	27,268
1990	$130.81	$2,304,744	$40.26	$1,330,747	16,182	27,999
1991	$152.43	$2,578,309	$42.04	$1,400,738	16,149	28,027
1992	$162.72	$2,630,827	$43.31	$1,353,865	15,846	27,158
1993	$184.71	$2,919,756	$41.78	$1,295,807	15,463	25,583
1994	$191.13	$2,932,091	$44.51	$1,309,807	15,583	25,803
1995	$211.29	$3,133,885	$45.27	$1,365,575	14,942	25,719
1996	$219.46	$3,393,307	$46.73	$1,444,015	15,069	26,262
1997	$238.69	$3,674,368	$46.42	$1,460,234	15,297	28,658
1998	$243.85	$3,818,832	$47.59	$1,486,764	15,100	24,761
Annual average percent change	8.8%	8.0%	4.3%	2.4%	-0.6%	-2.4%

Graph 2

Monograph and Serial Costs in ARL Libraries, 1986-1998



Source: *ARL Statistics 1997-98*, Association of Research Libraries, Washington DC

Although it is tempting to draw generalizations from these major trends, it would be a mistake to oversimplify. The academic and research library environment is complex. To some extent, these trends are tied to the transformational nature of new technologies and networking capabilities. Although most monograph and serial titles are still produced in a paper format, traditional formats are being challenged by the electronic production and dissemination of scholarly publications. Electronic communication and the establishment of networks, consortia, and inter-institutional agreements are similarly making the distribution of information more effective, not only for digitized materials, but for printed books and/or photocopies, as well. Other possible explanations for the trends mentioned above include the strong emphasis on scientific and technical research, expectations for timely information, and the twigging effect of specialization in new fields of knowledge. No matter what the underlying causal relations, research libraries are exchanging some of the traditional archival imperatives for the user demands of "information here and now."

In more specific terms, ARL data show that, while ARL libraries more than doubled expenditures for serials from 1986 to 1998, they bought 7% fewer serial titles (Graph 2). During the last decade, libraries shifted expenditures from monographs to serials to meet some of the demands of increasing serial prices (Graph 5), reducing the number of monographs purchased by 25%, which makes a record low median figure of 24,761 monographs purchased in 1997-98, while the unit cost for monographs increased by 66%.[3] Since 1986, the annual average increase for the serial unit cost has been 8.8% and for the monograph unit cost 4.3%,[4] both higher than the general inflation trends in North America during the same period.

Remarkably and despite an annual average percent increase ranging from 8% to 10% in the serial unit price every year since 1995, ARL libraries have managed to keep constant the level of subscriptions during the last four years. How are libraries finding ways to cope with the exorbitant increases in the prices of scientific journals? What are the forces that have sustained a relatively stable number of subscriptions over the last four years? Increased awareness of the problems by faculty and administrators? Technological initiatives such as electronic publications?

Although it is impossible to provide a definite answer at this point, a recent initiative of ARL is aiming toward providing some alternatives to the spiraling serial prices. The Scholarly Publishing and Academic Resources Coalition (SPARC) was launched in June 1998 and is an alliance of libraries that fosters expanded competition in scholarly communication. SPARC creates "partnerships" with publishers who are developing high quality, economical alternatives to existing high-priced publications. In the short time since its inception, SPARC's activities have been featured in the popular press, have helped increase awareness of the challenges facing libraries, and initiated specific actions aiming towards increasing competition in the largely monopolistic field of scientific scholarly publishing.[5]

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[3] ARL has co-sponsored a conference highlighting the problems facing the specialized scholarly monograph. See <http://www.arl.org/scomm/epub/program.html>.

[4] The *ARL Statistics 1985-86*, based on only the data for that one year, shows a median unit price of $29.50 for monographs (p. 28), and the *ARL Statistics 1997-98*, based on data submitted only for that one year, show a median unit price of $46.71 (p. 46). However, the annually published figures on the table entitled "Analysis of Selected Variables of University Libraries" are not appropriate indicators for a time series analysis because some ARL libraries did not report this information throughout the time period.

[5] For more information, see <http://www.arl.org/sparc/index.html>.

Although libraries are buying fewer serials and monographs than they did 11 years ago, they serve a slightly higher number of students and faculty (Graph 3 and Table 3). In 1986, the typical ARL library subscribed to 16,198 serials and bought 33,210 monographs for 16,684 students and 1,125 faculty. However, in 1998, it bought only 15,100 serials and 24,761 monographs for 18,245 students and 1,252 faculty.

As serial subscriptions are canceled and monograph purchases are reduced, faculty and students are borrowing through interlibrary loan more than twice as many items in 1998 as they did in 1986. The 1995-96 ARL ILL/DD Performance Measures Study has found that the cost of a borrowing transaction ranges from a low of $9.76 to a high of $27.84, with an average cost of $18.35 in 1995-96 US dollars for a research library.[*] If we adjust this figure for inflation using the CPI, it comes to an average cost of $19.06 in 1997-98. By contrast, the cost of purchasing a serial or a monograph is considerably higher. To the unit cost of $244 for a serial subscription or $48 for a monograph, a library would add processing costs of perhaps $55 or more. Then, based on cost alone in relation to annual use, a library could consider purchasing a serial only if it is expected to be used more than 15 times in a year and a monograph only if it is expected to be used at least six times. Even if processing costs are excluded, a serial subscription still needs to be used more than 12 times in a year and a monograph more than three times to consider making a purchasing decision. If the actual usage for a serial subscription or a monograph is less than these numbers, it could be more economical to acquire the needed information through interlibrary loan services.

Table 3
Supply and Demand in ARL Libraries, 1986-1998
Median Values for Time-Series Trends

Year	Interlibrary Borrowing	Interlibrary Lending	Graduate Students	Teaching Faculty	Total Students	Serials Purchased	Monographs Purchased
(No. of Libraries)	(106)	(106)	(106)	(103)	(106)	(43)	(63)
1986	7,049	16,152	3,040	1,125	16,684	16,198	33,210
1987	7,362	16,608*	3,148	1,234	17,029	16,518	27,214
1988	7,914	18,060	3,259	1,243	17,485	16,443	26,541
1989	8,548	19,317	3,346	1,293	17,866	16,015	27,268
1990	9,588	20,815	3,357	1,280	17,745	16,182	27,989
1991	10,342	22,056	3,362	1,303	18,290	16,149	28,027
1992	11,318	22,547	3,572	1,401	18,273	15,846	27,158
1993	12,486	22,840	3,842	1,303	18,450	15,463	25,583
1994	13,996	24,293	3,815	1,304	18,287	15,583	25,803
1995	14,403	25,201	3,984	1,321	18,089	14,942	25,719
1996	15,259	25,947	3,975	1,254	18,269	15,069	26,262
1997	16,362	26,423	3,996	1,274	18,063	15,297	25,658
1998	17,684	27,256	3,926	1,252	18,245	15,100	24,761
Annual average percent change	8.0%	4.5%	2.2%	0.9%	0.7%	-0.6%	-2.4%

[*] Mary E. Jackson, "Measuring the Performance of Interlibrary Loan and Document Delivery Services," *ARL: A Bimonthly Newsletter of Research Library Issues and Actions* (December 1997): 2.

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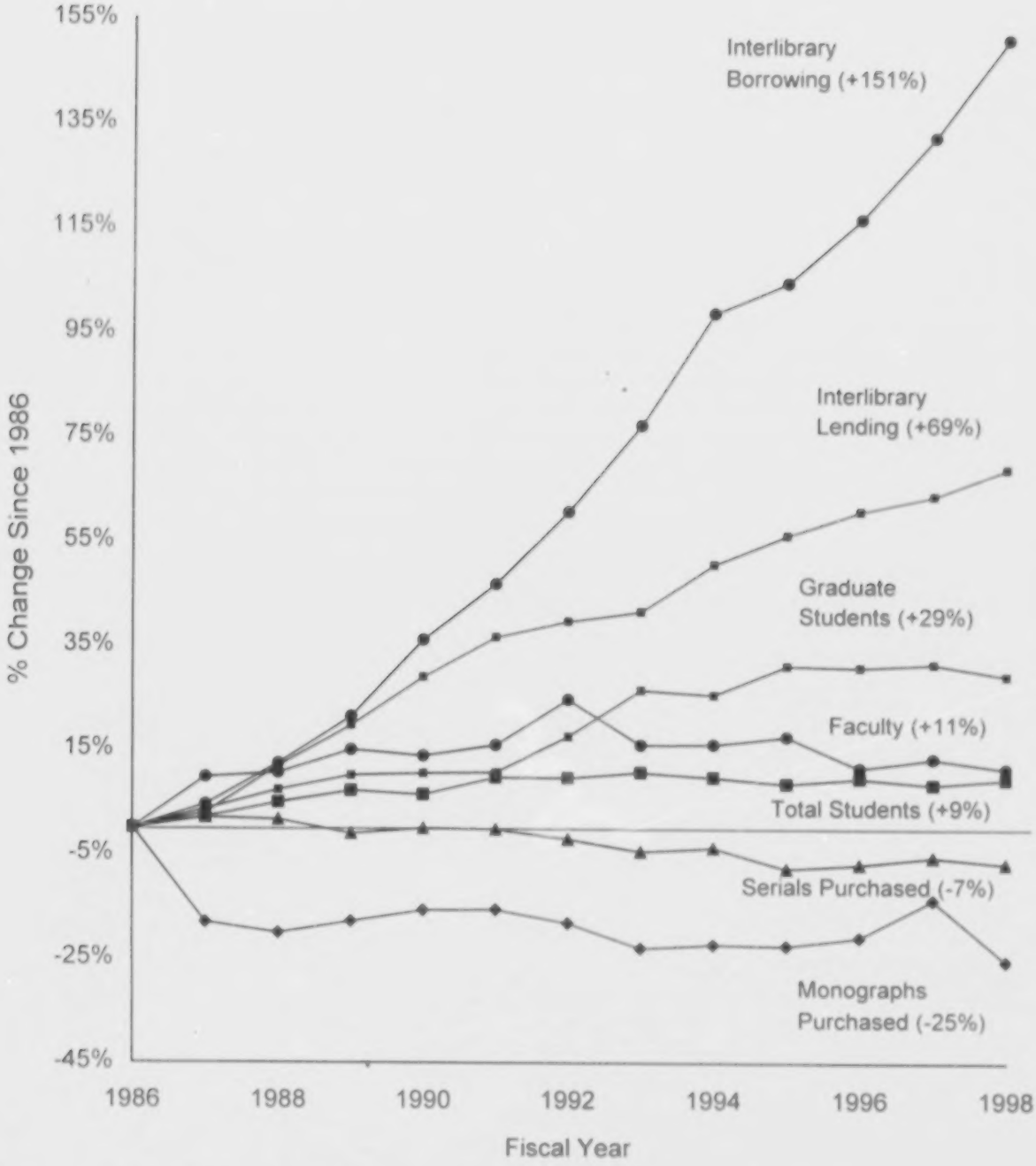
Graph 3

Supply and Demand in ARL Libraries, 1986-1998



Source: ARL Statistics 1997-98, Association of Research Libraries, Washington,

Of course, this economic scenario works only as long as there are libraries that continue to collect materials regardless of annual usage and that are willing to provide those materials to other libraries through interlibrary loan. ARL data show research libraries are lending 69% more items today than they did 11 years ago. The cost of a lending transaction for research libraries ranged from a low of $4.87 to a high of $16.34, with an average cost of $9.48 in 1995-96,[9] that is an average cost in 1997-98 of $9.85, adjusted for inflation. The roles of acquirer and provider have usually been performed by research libraries whose mission statements encourage those roles and who have acquisitions budgets that make it possible for them to support themselves and others while allowing access to materials for both current and future users.

Given the cost considerations for ILL/DD and the number of interlibrary loan transactions, university research libraries spent only 1.9% of their total library expenditures for lending and 2.3% for borrowing in 1997-98. This total of 4.2% generally includes ILL/DD personnel expenses, unlike the 37% spent on library materials, which excludes processing personnel expenditures.

To more effectively satisfy the information needs for resources that are unavailable locally, many libraries have joined state-wide and regional consortia through which they share not only resources through interlibrary loan but also some of the financial burdens of licensing information sources.[10] Libraries are placing more emphasis on access, as the cost of access appears to be more affordable than the cost of ownership. State legislators have also demonstrated a willingness to invest in state-wide library systems (e.g., OhioLINK, Illinet Online, TexShare, Virginia's VIVA, Digital Library of California, etc.)[11] in order to more efficiently use library resources.

Research institutions are pioneers in extending such cooperation beyond political and geographic boundaries: for example, the Committee for Institutional Cooperation (CIC),[12] a harbinger of a distributed global scholarly library network, crosses state boundaries in the U.S. The establishment in 1997 of the International Coalition of Library Consortia (ICOLC), whose goal is to serve higher education institutions by keeping members informed about new electronic information resources and the pricing practices of electronic providers and vendors, also demonstrates a strong interest among library consortia to work together on issues that are fundamental to realizing this global scholarly network.[13]

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[9] Ibid.

[10] Martha Kyrillidou, "New Collections, New Marketplace Relations," *Resource Sharing and Information Networks* 14:1 (Fall 1998): in press.

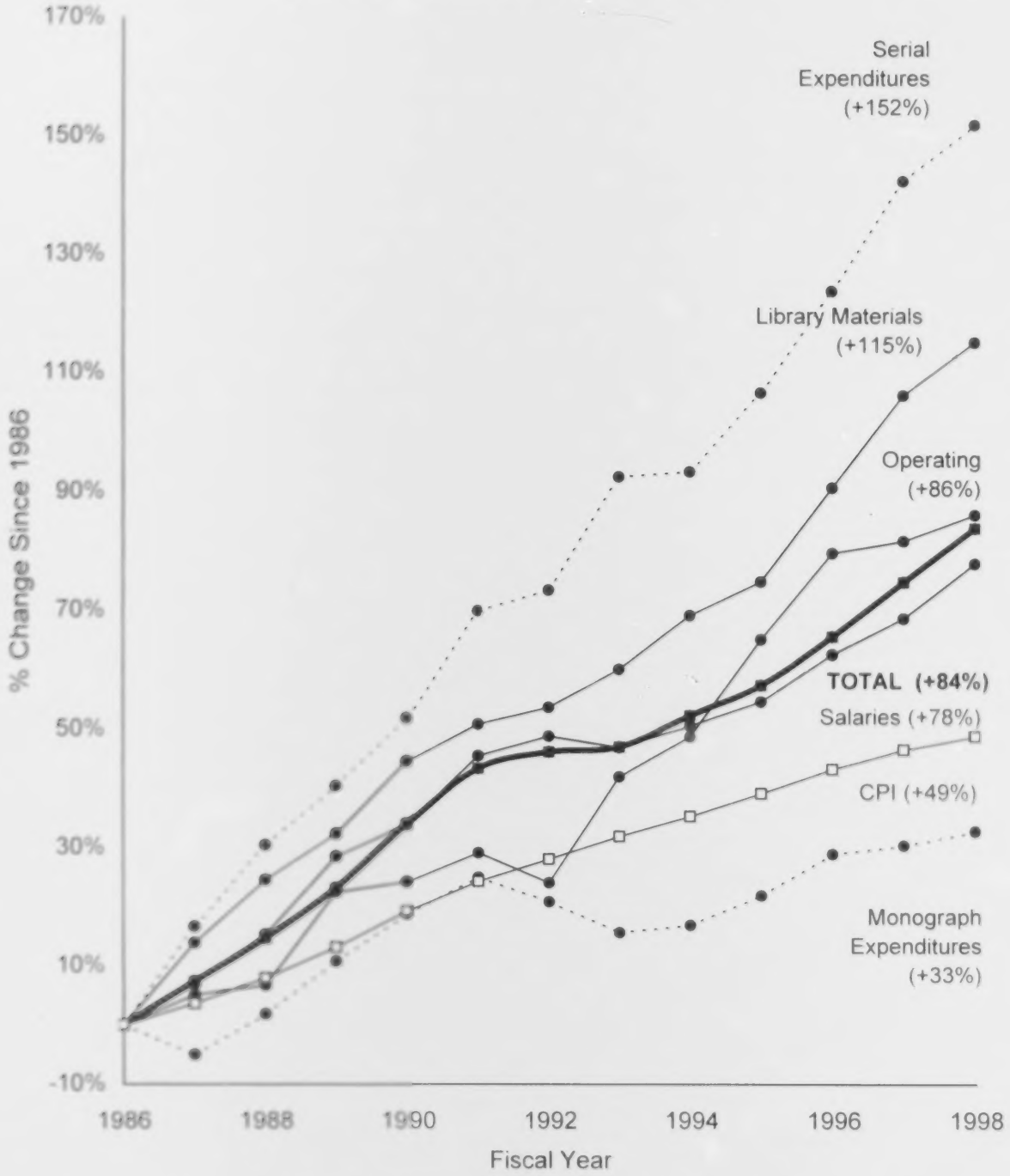
[11] OhioLINK: <http://www.ohiolink.edu/>
Illinet Online: <http://www.library.sos.state.il.us/illinetw.html> or
<http://ilcso.aiss.uiuc.edu/Web/Services/ILLINET_Online/ILLINET_Online.html>
TexShare: <http://www.texshare.edu/>
VIVA: <http://www.viva.lib.va.us/>

[12] <http://NTX2.cso.uiuc.edu/cic/index.html>

[13] <http://www.library.yale.edu/consortia/>

Graph 4

Expenditure Trends in ARL Libraries, 1986-1998



Source: *ARL Statistics 1997-98*, Association of Research Libraries, Washington DC

As the research library environment moves to even speedier networks with the development of the recently established Internet2 (I2)[14] and the Next Generation Internet (NGI) Initiative[15], issues related to mechanisms for establishing access and ownership costs for managing content on such networks are fundamental concerns for the library of the future.

The financial picture for research libraries is evident in Graph 4, "Expenditure Trends in ARL Libraries." Library material budgets have been rising quickly in order to sustain serial expenditures. Operating expenditures, where many automation and electronic information resource expenditures are reported, are also increasing rapidly. A slower increase is noted for total salary expenditures, which reflects a combination of slightly increasing salaries and staff reductions. Monograph expenditures, although rising somewhat steadily in recent years, have been increasing at a much slower pace to accommodate the ever-increasing serial expenditures. The annual consumer price index (CPI), included on this graph, provides a reference for the increases in library expenditures.

Table 4
Expenditure Trends in ARL Libraries, 1986-1998
Median Values for Time-Series Trends -- Unadjusted dollar figures

Year	Library Materials	Serial Expenditures	Monograph Expenditures	Total Salaries	Operating Expenditures	Total Expenditures
(No. of Libraries)	(106)	(103)	(99)	(106)	(106)	(106)
1986	$2,707,219	$1,517,724	$1,120,645	$4,108,616	$1,134,008	$8,390,865
1987	3,083,288	1,770,567	1,064,484	4,390,277	1,191,641	9,006,308
1988	3,371,421	1,979,604	1,141,226	4,737,470	1,209,633	9,623,944
1989	3,582,400	2,130,162	1,241,133	5,278,104	1,389,321	10,332,186
1990	3,913,466	2,304,744	1,330,747	5,500,869	1,408,280	11,243,645
1991	4,083,358	2,578,309	1,400,738	5,977,903	1,463,873	12,032,893
1992	4,160,064	2,630,827	1,353,865	6,113,071	1,406,661	12,264,226
1993	4,332,769	2,919,756	1,295,807	6,034,232	1,609,350	12,331,859
1994	4,577,203	2,932,091	1,309,807	6,183,885	1,686,070	12,775,909
1995	4,729,921	3,133,885	1,365,575	6,349,708	1,871,603	13,204,133
1996	5,157,375	3,393,307	1,444,015	6,675,390	2,035,496	13,885,477
1997	5,577,348	3,674,368	1,460,234	6,922,290	2,058,496	14,652,763
1998	5,817,324	3,818,832	1,486,764	7,300,236	2,107,948	15,410,758
Annual average percent change	6.6%	8.0%	2.4%	4.9%	5.3%	5.2%

[14] <http://www.internet2.edu>

[15] <http://www.ngi.gov>

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Table 5, "Resources per Student in ARL Libraries," shows that, per student, borrowing activity through interlibrary loan has continued to increase at an annual average rate of 7.2% since 1986. Further, libraries are borrowing more than twice as many items on a per student basis as they did 11 years ago.[16] However, as was also shown in Table 3, acquisition levels for both serials and monographs per student continue to slide. Libraries acquire a third fewer monographs and 14% fewer serials per student now than they did in 1986. That equals 780 serial subscriptions and 1,410 monographs per 1,000 students in 1998 as compared to 910 serial titles and 2,220 monographs purchased per 1,000 students in 1986.[17]

In 1998, the median number of volumes added was 4.08 per student, compared to the 4.18 volumes added per student in 1986. Libraries also reported fewer staff per student in 1998 as compared to 1986. In 1998, there was a median number of 14.7 total staff per 1,000 students, compared to the 1986 figure of 16 per 1,000.

Table 5
Resources per Student in ARL Libraries, 1986-1998
Median of Ratio Values for Time-Series Trends

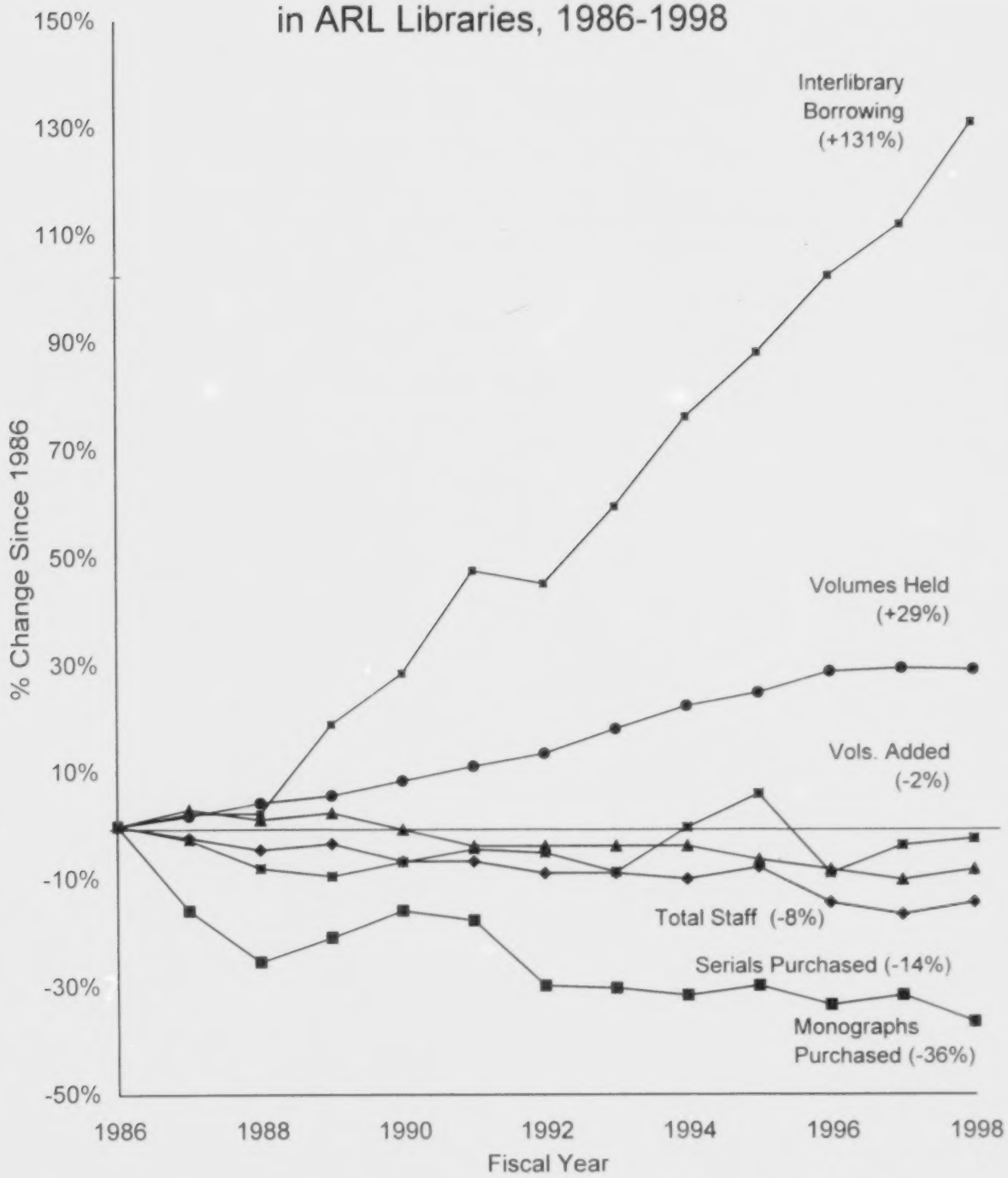
Year	Interlibrary Borrowing	Volumes Held	Volumes Added (Gross)	Total Staff	Serials Purchased	Monographs Purchased
(No. of Libraries)	(106)	(106)	(106)	(106)	(43)	(63)
1986	0.42	123.97	4.18	0.0160	0.91	2.22
1987	0.43	126.34	4.07	0.0165	0.89	1.87
1988	0.43	129.34	3.85	0.0162	0.87	1.66
1989	0.50	131.04	3.79	0.0164	0.88	1.76
1990	0.54	134.45	3.90	0.0159	0.85	1.87
1991	0.62	137.79	4.00	0.0154	0.85	1.83
1992	0.61	140.79	3.97	0.0154	0.83	1.56
1993	0.67	146.44	3.82	0.0154	0.83	1.55
1994	0.74	151.77	4.17	0.0154	0.82	1.52
1995	0.79	154.82	4.43	0.0150	0.84	1.56
1996	0.85	159.74	3.81	0.0147	0.78	1.48
1997	0.89	160.52	4.03	0.0144	0.76	1.52
1998	0.97	160.16	4.08	0.0147	0.78	1.41
Annual average percent change	7.2%	2.2%	-0.2%	-0.7%	-1.3%	-3.7%

[16] This overall trend should not be interpreted as a rigid doubling period as it falsifies the varying experiences of individual libraries.

[17] To get the number of resources per 1,000 students, multiply the figures in Table 5 by 1,000.

Graph 5

Resources per Student in ARL Libraries, 1986-1998



Source: *ARL Statistics 1997-98*, Association of Research Libraries, Washington DC

THE TRENDS CONTINUE

In sum, purchases of fewer serials and monographs since 1986, but more or less the same number of serials since 1995, coupled with increases in expenditures for these items, are indicators of the continuing declining purchasing power of research libraries. Higher levels of service activities in interlibrary loan and library instruction services serve as indicators of increased access to, rather than ownership of, library resources. And the fluctuating trends of reference and circulation services since 1991 serve as indicators of the changing and increasing in complexity information needs of library users. These trends are greatly due to technological innovation that is readily adopted and barriers to access that are gradually being reduced.

Library roles are being redefined as the academic community undergoes changes. The ARL Statistics and Measurement Program and its advisory ARL Committee on Statistics and Measurement continue to look for new ways to describe and measure the performance of research libraries and their contribution to teaching, research, learning, and community service. In a period of rapid technological change and fluctuation, the information gathered in this data compilation represents only a very basic and rudimentary picture of the major trends affecting research libraries, their resources, and their use. This data compilation does not assess, for example, the quality of an organization in meeting user needs. Such answers can only be found by library staff who systematically explore with users their real needs and then design better service delivery systems at the local level. The ARL Statistics and Measurement Program assists libraries in these efforts through both training efforts and customized services. For more information, see <http://www.arl.org/stats/index.html>.

Those using the *ARL Statistics* to compare individual libraries should consult the extensive "Footnotes" section of this report and the symbols in the "ARL Library Data Tables." Although definitions used in the *Statistics* aim for consistency, differing reporting practices do exist among member libraries. To aid comparability in the *ARL Statistics*, Canadian library expenditures are expressed in U.S. dollars, at the rate of 1.4177 Canadian dollars to one U.S. dollar. This exchange rate is the average monthly noon exchange rate published in the *Bank of Canada Review* for the period July 1997 - June 1998. Expenditures reported in Canadian dollars are given in the "Footnotes."

The quantitative rank order tables presented in this publication are not indicative of performance and outcomes and should not be used as measures of library quality. In comparing any individual library to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and characteristics.

Martha Kyrillidou
Senior Program Officer for Statistics and Measurement
Association of Research Libraries
March 25, 1999

INTERACTIVE ARL STATISTICS ON THE WORLD WIDE WEB

ARL Statistics 1997-98 is available also through an interactive WWW edition, supplementing previously available data from 1992-93. Maintained and supported by the Geospatial and Statistical Data Center at the University of Virginia, this site offers researchers access to *ARL Statistics* with documentation. The site is formatted for use with Netscape 2.02™ or higher, but other browsers also may be used to access the data.

The site offers maps and graphics depicting current library trends. For the particularly adventurous, the site links to an interactive graphics and statistics page, allowing users to manipulate their data queries. One may choose univariate, bivariate, or multivariate statistics in addition to a vast array of selections with which to customize a query. The interactive pages also include options for regional aggregates, customized samples of observations, simple rank order tabulations of data, and the ability to create ratios of any two variables.

The site also includes membership index data (volumes held, volumes added gross, current serials, total library expenditures, and total staff), as published in the *Chronicle of Higher Education* each spring, which can be displayed as numbers or graphs. A link provides an explanation of how the ARL membership index is used in assessing new members and the table of formulas for calculating the index since 1986 is also included. These and other capabilities are located at

<http://fisher.lib.virginia.edu/newarl/>

Those without access to a graphical WWW browser can retrieve *ARL Statistics* datafiles from 1908 to date in spreadsheet and ASCII format from

<ftp://www.arl.org/stat/machine>

The data are available via browser at

<http://www.arl.org/stats/arlstat/mrstat.htm>

The latest ARL membership index data are available at

<http://www.arl.org/stat/criteria>

General information about the ARL Statistics and Measurement Program is located at

<http://www.arl.org/stats/stat.html>

ARL LIBRARY DATA TABLES 1997-98

ARL Library Data Tables 1997-98

Collections

INSTITUTION	Notes	Volumes in Library	Volumes Added (Gross)	Volumes Added (Net)	Monographs Purchased (Volumes)	Current Serials Purchased (Subs.)	Current Serials Not Purchased	Current Serials Total
(Survey Question #)		(1)	(2)	(3)	(4)	(5)	(6)	(7)
ALABAMA	LM+	2,136,423	46,620	38,892	14,003	10,996	7,946	18,942
ALBERTA	LM+	5,275,697	104,980	86,520	27,790	22,989	4,897	27,886
ARIZONA	bLM+	4,528,588	94,185	85,627	43,833	21,874	3,400	25,274
ARIZONA STATE	L+	3,372,529	98,570	94,197	54,595	22,119	14,502	36,621
AUBURN	+	2,504,557	47,814	39,891	20,029	7,433	11,306	18,739
BOSTON	LM+	2,129,423	52,447	43,165	19,919	16,591	11,581	28,172
BRIGHAM YOUNG	-	2,500,849	39,029	37,883	32,516	9,477	6,552	16,029
BRITISH COLUMBIA	LM+	3,913,833	76,830	60,391	U/A	U/A	U/A	21,888
BROWN	M+	2,978,970	52,232	46,152	27,991	9,518	4,122	13,640
CALIFORNIA, BERKELEY	L+	8,792,009	155,007	148,772	U/A	U/A	U/A	79,125
CALIFORNIA, DAVIS	bLM+	3,014,490	78,267	65,277	U/A	U/A	U/A	43,334
CALIFORNIA, IRVINE	M+	2,030,624	58,761	56,652	19,881	9,473	8,714	18,187
CALIFORNIA, LOS ANGELES	LM+	7,212,229	210,975	200,003	166,628	U/A	U/A	94,748
CALIFORNIA, RIVERSIDE	+	1,896,960	48,732	46,028	32,797	7,429	5,136	12,565
CALIFORNIA, SAN DIEGO	M+	2,577,641	91,648	46,223	36,788	14,357	9,099	23,456
CALIFORNIA, SANTA BARBARA	+	2,503,741	110,296	107,130	31,475	9,662	8,438	18,100
CASE WESTERN RESERVE	LM+	1,996,479	35,499	31,001	11,967	11,582	2,460	14,042
CHICAGO	bLM+	6,271,045	159,852	154,067	75,724	U/A	U/A	35,693
CINCINNATI	LM+	2,524,410	64,237	58,642	31,465	U/A	U/A	21,556
COLORADO	bL+	2,789,579	85,388	73,877	56,510	13,925	11,338	25,263
COLORADO STATE	+	1,752,704	50,449	44,595	22,149	9,225	12,030	21,255
COLUMBIA	LM+	7,018,408	218,519	112,799	U/A	41,034	25,746	66,780
CONNECTICUT	BGLM+	2,885,664	71,893	57,305	26,980	15,560	1,613	17,173
CORNELL	BL+	6,260,779	219,195	147,433	U/A	U/A	U/A	61,941
DARTMOUTH	M+	2,261,911	46,816	38,617	23,201	17,749	2,294	20,043
DELAWARE	+	2,358,006	50,502	46,564	32,221	8,627	3,593	12,220
DUKE	GLM+	4,764,033	125,512	118,983	50,711	U/A	U/A	34,872
EMORY	BLM+	2,442,504	79,666	65,299	47,924	17,670	6,041	23,711
FLORIDA	LM+	3,401,279	97,160	83,498	72,208	21,864	3,349	25,213
FLORIDA STATE	BGL+	2,263,257	53,631	47,239	18,677	U/A	U/A	15,511
GEORGE WASHINGTON	LM+	1,848,636	44,958	26,934	29,554	14,434	589	15,023
GEORGETOWN	LM+	2,363,799	76,214	39,398	34,805	27,071	308	27,379
GEORGIA	L+	3,539,483	91,885	81,185	45,386	U/A	U/A	42,323
GEORGIA TECH	+	2,022,141	59,169	57,300	12,393	6,356	8,051	14,407
GUELPH	bG+	2,125,779	29,459	25,898	U/A	U/A	U/A	8,156
HARVARD	LM+	13,892,429	310,016	285,193	U/A	U/A	U/A	105,449
HAWAII	-	2,991,974	73,882	66,153	31,293	17,495	9,376	26,871
HOUSTON	GL+	1,986,642	48,815	45,737	23,131	17,298	805	18,103
HOWARD	GLM+	2,372,112	40,331	38,629	10,354	14,201	167	14,368
ILLINOIS, CHICAGO	M+	1,989,739	52,278	34,124	24,143	14,313	1,225	15,538
ILLINOIS, URBANA	L+	9,171,693	153,293	147,395	89,484	U/A	U/A	61,801

+ - See Footnotes
L - Includes Law Library
M- Includes Medical Library
G - Government Documents Not Included in Serials Count
B - Includes Branch Campuses
b - Bibliographic Count
U/A - Unavailable
N/A - Not Applicable

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ARL Library Data Tables 1997-98

Collections

Microform Units	Government Documents	Computer Files	Archives and Manus.	Carto-graphic Materials	Graphic Materials	Audio Materials	Video and Film	
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(Survey Question #)
								INSTITUTION
3,419,660	1,158,703	2,980	27,147	272,321	178,580	20,137	2,518	ALABAMA
3,583,907	0	7,037	14,436	1,373,050	U/A	U/A	U/A	ALBERTA
5,534,510	0	4,321	7,789	246,460	344,037	35,503	10,689	ARIZONA
6,886,072	762,747	5,909	14,556	194,801	1,031,278	54,593	16,924	ARIZONA STATE
2,430,191	390,005	1,071	8,416	140,913	449,590	32,284	6,251	AUBURN
3,799,675	0	1,024	39,481	1,700	20,993	47,756	576	BOSTON
2,414,163	382,108	4,904	16,949	231,264	18,382	52,184	2,766	BRIGHAM YOUNG
4,722,482	843,083	3,833	10,301	514,174	451,706	112,828	9,395	BRITISH COLUMBIA
1,672,205	U/A	3,346	7,041	136,025	884,270	55,857	3,556	BROWN
6,056,861	106,531	7,848	U/A	388,877	3,006,317	68,407	17,318	CALIFORNIA, BERKELEY
3,857,058	119,645	4,018	11,312	243,366	212,614	13,949	657	CALIFORNIA, DAVIS
2,284,641	314,260	5,118	2,132	9,094	71,664	12,638	3,074	CALIFORNIA, IRVINE
5,933,330	69,876	5,362	70,325	622,628	4,371,148	218,709	20,182	CALIFORNIA, LOS ANGELES
1,661,992	362,679	2,305	2,151	89,231	21,710	16,048	4,370	CALIFORNIA, RIVERSIDE
2,804,039	203,712	10,134	7,599	204,319	286,701	76,856	7,885	CALIFORNIA, SAN DIEGO
3,579,551	458,989	8,882	8,681	3,591,039	7,819	88,254	3,033	CALIFORNIA, SANTA BARBARA
2,289,347	77,889	3,806	968	64,000	72,716	28,204	5,387	CASE WESTERN RESERVE
2,583,308	U/A	1,625	23,843	379,814	0	26,574	846	CHICAGO
3,064,051	129,929	4,707	19,881	158,717	287,293	41,929	14,420	CINCINNATI
5,902,528	1,659,582	12,054	28,257	202,664	360,809	46,830	10,826	COLORADO
2,417,508	302,895	4,788	1,746	61,562	2,346	6,708	172	COLORADO STATE
5,303,297	181,099	U/A	209,812	130,422	608,251	U/A	U/A	COLUMBIA
4,157,048	U/A	2,675	19,173	226,135	3,048	29,460	7,306	CONNECTICUT
7,346,320	U/A	5,933	56,618	228,860	32,957	79,208	13,580	CORNELL
2,502,066	0	6,082	11,848	175,180	358,333	28,196	3,344	DARTMOUTH
2,993,864	421,301	3,420	2,952	123,052	787	1,496	9,381	DELAWARE
3,499,970	1,377,009	5,947	25,447	127,862	30,176	23,896	12,270	DUKE
3,573,523	127,155	2,874	11,316	25,921	2,812	19,772	10,052	EMORY
6,340,498	1,244,681	15,175	25,409	706,120	278,447	21,242	9,622	FLORIDA
4,767,120	930,858	3,624	2,556	168,618	458	38,616	4,201	FLORIDA STATE
2,468,719	0	824	11,250	14,810	154,936	1,653	11,249	GEORGE WASHINGTON
3,665,068	8,357	9,428	14,554	1,155	83,803	54,311	10,937	GEORGETOWN
6,189,050	1,000,661	4,296	60,648	599,395	U/A	93,871	81,096	GEORGIA
4,021,393	0	5,035	8,505	184,783	100,946	1,866	3,617	GEORGIA TECH
1,320,555	0	1,391	7,209	72,627	U/A	9,324	7,113	GUELPH
8,449,472	U/A	U/A	U/A	U/A	U/A	U/A	U/A	HARVARD
3,806,442	0	3,013	6,068	246,690	1,867	23,771	19,091	HAWAII
3,819,341	664,416	1,129	2,760	4,409	210	3,606	1,909	HOUSTON
3,606,759	U/A	249	U/A	103	32,852	24,288	63,000	HOWARD
2,662,159	719,852	230	20,869	176,686	247,000	15,936	9,819	ILLINOIS, CHICAGO
4,860,207	U/A	5,709	25,808	622,621	86,971	140,614	10,017	ILLINOIS, URBANA

U/A - Unavailable N/A - Not Applicable

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ARL LIBRARY DATA TABLES 1997-98

COLLECTIONS

(Survey Question #)		Volumes in Library (1)	Volumes Added (Gross) (2)	Volumes Added (Net) (3)	Mono-graphs Purchased (Volumes) (4)	Current Serials Purchased (Subs.) (5)	Current Serials Not Purchased (6)	Current Serials Total (7)
INSTITUTION	Notes							
INDIANA	L+	6,043,233	149,845	126,241	48,124	28,935	13,358	42,293
IOWA	LM+	3,926,853	131,943	104,197	53,800	27,135	19,651	46,786
IOWA STATE	+	**2,167,294**	**48,314**	**42,330**	**27,518**	**12,226**	**10,229**	**22,455**
JOHNS HOPKINS	BM+	**3,275,082**	**57,311**	**50,341**	**33,812**	**16,130**	**5,207**	**21,337**
KANSAS	BLM+	**3,607,522**	**76,583**	**74,712**	**44,152**	**17,104**	**15,986**	**33,090**
KENT STATE	B+	2,392,571	56,811	46,557	13,003	9,424	3,529	12,953
KENTUCKY	LM+	2,719,088	50,850	40,004	18,957	17,700	10,835	28,535
LAVAL	LM+	2,326,630	75,193	40,326	20,961	9,139	2,427	11,566
LOUISIANA STATE	L+	**3,006,356**	**74,682**	**55,914**	**20,754**	**13,946**	**4,029**	**17,975**
MCGILL	bLM+	**3,059,524**	**72,993**	**65,368**	**33,152**	**11,685**	**5,102**	**16,787**
MCMASTER	M+	**1,823,724**	**44,691**	**36,516**	**19,463**	**7,493**	**3,739**	**11,232**
MANITOBA	GLM+	1,784,395	46,918	44,370	U/A	U/A	U/A	9,249
MARYLAND	+	2,699,919	79,208	73,119	37,055	13,226	13,911	27,137
MASSACHUSETTS	+	2,882,541	56,909	56,257	25,187	10,791	5,044	15,835
MIT	+	**2,532,175**	**47,427**	**38,248**	**18,554**	**8,886**	**9,473**	**18,359**
MIAMI	LM+	**2,165,040**	**56,190**	**47,042**	**36,655**	**15,657**	**3,330**	**18,987**
MICHIGAN	LM+	**7,071,842**	**141,359**	**98,680**	**89,541**	**34,610**	**34,670**	**69,280**
MICHIGAN STATE	+	4,188,141	108,288	70,109	41,578	12,770	14,541	27,311
MINNESOTA	bLM+	5,613,171	141,753	122,503	37,981	32,089	14,890	46,989
MISSOURI	LM+	2,856,649	45,666	40,197	23,618	U/A	U/A	23,522
NEBRASKA	L+	**2,501,014**	**60,527**	**58,899**	**19,805**	**12,564**	**10,667**	**23,231**
NEW MEXICO	bLM+	**2,244,315**	**74,117**	**69,356**	**28,169**	**11,951**	**5,837**	**17,788**
NEW YORK	LM+	**3,731,910**	**127,522**	**113,666**	**74,052**	**28,337**	**1,439**	**29,776**
NORTH CAROLINA	LM+	4,928,026	125,561	108,840	60,746	22,974	21,049	44,023
NORTH CAROLINA STATE	+	2,713,146	103,907	94,531	36,337	22,671	12,523	35,194
NORTHWESTERN	BLM+	3,954,204	89,659	61,199	U/A	U/A	U/A	40,608
NOTRE DAME	GL+	**2,644,486**	**68,452**	**60,817**	**36,424**	**U/A**	**U/A**	**24,106**
OHIO	BM+	**2,174,674**	**65,863**	**64,080**	**U/A**	**U/A**	**U/A**	**29,065**
OHIO STATE	bLM+	**5,177,386**	**115,405**	**90,250**	**56,432**	**26,319**	**9,701**	**36,020**
OKLAHOMA	GLM	4,066,129	91,258	73,213	15,553	16,130	760	16,890
OKLAHOMA STATE	BM+	2,038,952	78,331	75,795	19,624	U/A	U/A	17,552
OREGON	L+	2,306,017	62,385	60,564	28,764	10,158	4,826	14,984
PENNSYLVANIA	LM+	**4,672,777**	**131,606**	**126,110**	**U/A**	**U/A**	**U/A**	**34,276**
PENNSYLVANIA STATE	BLM+	**4,260,519**	**148,733**	**103,910**	**U/A**	**25,526**	**10,263**	**35,789**
PITTSBURGH	BLM+	**3,911,168**	**108,209**	**92,068**	**U/A**	**U/A**	**U/A**	**24,375**
PRINCETON	+	5,637,901	125,382	121,760	U/A	U/A	U/A	34,348
PURDUE	b+	2,280,681	43,830	39,178	14,522	11,172	7,853	19,025
QUEEN'S	bGLM+	2,175,352	38,988	35,639	18,532	10,132	693	10,825
RICE	+	**2,019,068**	**69,096**	**62,423**	**47,220**	**11,000**	**3,282**	**14,282**
ROCHESTER	GM+	**2,992,304**	**50,936**	**30,147**	**24,761**	**10,403**	**851**	**11,254**
RUTGERS	BL+	**3,703,052**	**83,009**	**69,260**	**31,833**	**U/A**	**U/A**	**28,934**

+ - See Footnotes
L - Includes Law Library
M - Includes Medical Library
G - Government Documents Not Included in Serials Count
B - Includes Branch Campuses
b - Bibliographic Count
U/A - Unavailable
N/A - Not Applicable

BEST COPY AVAILABLE

COLLECTIONS

Microform Units	Government Documents	Computer Files	Archives and Manus.	Carto-graphic Materials	Graphic Materials	Audio Materials	Video and Film	
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(Survey Question #)
								INSTITUTION
4,160,651	0	4,222	32,439	392,600	650,477	269,234	31,545	INDIANA
6,120,233	1,036,261	8,353	13,079	358,969	227,906	23,631	8,527	IOWA
3,015,078	0	2,252	11,716	128,426	721,324	13,953	37,635	IOWA STATE
3,844,542	6,279	4,076	12,802	209,688	62,172	23,570	4,095	JOHNS HOPKINS
3,203,485	688,677	7,034	41,588	317,654	2,828,179	28,722	16,503	KANSAS
1,239,311	154	2,407	9,506	268,615	29,611	23,212	21,040	KENT STATE
5,872,795	1,148,322	3,831	22,687	240,647	557,612	38,015	34,493	KENTUCKY
1,255,679	0	1,537	0	320,665	205,098	19,934	13,810	LAVAL
5,126,958	80,416	U/A	19,043	287,502	U/A	19,019	2,043	LOUISIANA STATE
1,535,235	833,211	1,854	2,499	238,713	245,718	37,373	31,665	MCGILL
1,446,032	0	422	11,079	137,893	3,992	32,831	2,111	MCMASTER
1,331,334	525,943	1,324	2,995	106,696	654,231	15,191	2,694	MANITOBA
5,273,287	753,218	3,299	30,151	217,425	83,369	142,062	23,969	MARYLAND
2,312,142	315,238	2,929	10,822	112,165	0	13,972	158	MASSACHUSETTS
2,225,281	0	7,086	11,658	115,153	432,918	21,206	2,817	MIT
3,396,268	143,886	1,266	10,000	35,925	133	41,142	881	MIAMI
5,751,146	0	23,859	31,149	312,971	1,669,420	31,975	20,852	MICHIGAN
5,276,877	U/A	9,775	832	221,101	1,817	44,166	260	MICHIGAN STATE
5,582,760	2,903,206	11,094	51,679	402,198	U/A	U/A	U/A	MINNESOTA
6,460,647	1,758,729	U/A	7,609	U/A	0	16,066	405	MISSOURI
4,219,236	547,720	2,043	7,739	156,108	19,281	26,987	1,526	NEBRASKA
6,458,742	284,382	6,554	17,293	209,860	1,525,073	40,030	6,881	NEW MEXICO
4,278,548	434,872	2,708	17,846	0	918,667	41,122	11,390	NEW YORK
4,332,233	1,593,335	5,972	23,051	313,150	543,677	137,470	38,975	NORTH CAROLINA
4,752,758	0	11,754	5,890	37,316	87,769	2,637	10,886	NORTH CAROLINA STATE
3,483,125	7,600	4,304	17,591	195,130	372,178	55,183	14,722	NORTHWESTERN
3,203,292	U/A	2,103	U/A	72,872	456	14,208	3,857	NOTRE DAME
2,822,987	0	5,754	10,323	169,606	131,270	48,766	21,669	OHIO
4,410,243	116,128	3,445	18,300	181,693	1,936,000	U/A	U/A	OHIO STATE
3,716,738	0	2,161	11,945	149,157	201,449	2,283	3,952	OKLAHOMA
3,601,211	80,334	9,134	5,408	279,675	186,596	8,833	11,674	OKLAHOMA STATE
1,911,070	468,411	575	57,802	695,650	984,316	53,833	6,836	OREGON
3,251,543	U/A	3,506	10,340	124,051	571,563	50,130	1,760	PENNSYLVANIA
4,494,469	3,175	4,120	24,879	414,867	563,419	64,186	130,193	PENNSYLVANIA STATE
3,863,499	4,983	4,920	16,746	101,285	687,391	40,587	19,990	PITTSBURGH
4,678,893	361,317	U/A	36,537	306,818	26,114	65,093	322	PRINCETON
2,280,092	483,986	3,350	2,710	347,356	871	795	8,400	PURDUE
3,585,466	1,018,387	U/A	U/A	151,107	27,103	U/A	U/A	QUEEN'S
2,569,170	298,732	6,420	4,489	25,679	27,414	27,413	4,443	RICE
4,145,264	572,784	4,354	16,124	98,841	7,500	69,059	1,954	ROCHESTER
5,427,289	2,658,985	8,397	20,896	U/A	U/A	U/A	U/A	RUTGERS

U/A - Unavailable N/A - Not Applicable

ARL Library Data Tables 1997-98

Collections

(Survey Question #)		Volumes in Library (1)	Volumes Added (Gross) (2)	Volumes Added (Net) (3)	Mono-graphs Purchased (Volumes) (4)	Current Serials Purchased (Subs.) (5)	Current Serials Not Purchased (6)	Current Serials Total (7)
INSTITUTION	Notes							
SASKATCHEWAN	LM+	1,736,771	32,923	38,081	20,204	7,411	5,676	13,087
SOUTH CAROLINA	LM+	3,067,457	72,653	69,229	43,968	U/A	U/A	18,933
SOUTHERN CALIFORNIA	BLM+	3,480,853	93,399	62,925	35,739	22,343	6,191	28,534
SOUTHERN ILLINOIS	GL+	2,359,797	42,126	18,438	14,685	14,631	1,814	16,445
STANFORD	GLM+	6,997,003	212,558	134,011	U/A	U/A	U/A	44,504
SUNY-ALBANY	B+	1,900,626	46,358	30,549	23,603	U/A	U/A	16,077
SUNY-BUFFALO	GLM+	3,106,748	73,917	38,918	25,164	16,663	4,599	21,262
SUNY-STONY BROOK	M+	2,025,373	34,890	32,578	18,296	8,308	2,198	10,506
SYRACUSE	bL+	2,733,382	37,565	21,250	13,833	U/A	U/A	16,298
TEMPLE	BLM	2,391,914	51,820	46,572	23,985	11,764	4,991	16,755
TENNESSEE	BL+	2,276,304	59,341	49,322	28,976	16,316	1,117	17,433
TEXAS	L+	7,648,678	157,659	153,403	55,859	27,534	24,981	52,515
TEXAS A&M	bBM+	2,549,470	99,183	91,432	59,064	17,826	11,845	29,671
TEXAS TECH	BLM+	2,079,888	53,832	49,064	27,866	13,915	9,973	23,888
TORONTO	BLM+	8,605,956	238,027	149,051	151,540	39,228	10,648	49,876
TULANE	GLM+	2,148,660	40,723	32,645	21,584	U/A	U/A	14,986
UTAH	LM+	2,684,321	82,485	76,203	U/A	13,859	2,574	16,433
VANDERBILT	LM+	2,512,072	75,672	69,301	36,844	17,434	4,174	21,608
VIRGINIA	LM+	4,513,843	103,172	80,215	46,338	24,862	22,617	47,479
VIRGINIA TECH	+	2,004,684	58,031	1,081	18,281	10,849	7,669	18,518
WASHINGTON	LM+	5,820,229	138,298	105,264	38,087	34,997	15,248	50,245
WASHINGTON STATE	B+	1,963,546	41,662	39,236	19,990	U/A	U/A	27,377
WASHINGTON U.-ST. LOUIS	GLM+	3,296,358	77,570	61,353	20,873	18,339	287	18,626
WATERLOO	+	1,873,863	34,291	30,392	17,152	U/A	U/A	13,228
WAYNE STATE	bLM+	3,045,681	64,239	43,420	24,133	15,100	9,100	24,200
WESTERN ONTARIO	L+	2,292,285	61,212	44,146	24,873	11,925	2,647	14,572
WISCONSIN	LM+	5,902,197	106,311	77,558	55,264	31,569	10,949	42,518
YALE	LM+	10,108,371	180,953	176,291	108,820	47,033	7,900	54,933
YORK	BL+	2,250,952	53,497	44,845	41,793	U/A	U/A	14,359
BOSTON PUBLIC LIBRARY	+	6,793,674	204,499	83,767	195,231	U/A	U/A	27,800
CANADA INST. FOR SCITECH	B+	7,974,279	39,216	14,965	5,157	U/A	U/A	13,355
CENTER FOR RESEARCH LIBS	BG+	4,144,233	16,320	16,320	3,531	U/A	U/A	15,295
LIBRARY OF CONGRESS	L+	24,365,263	374,570	370,300	101,951	16,907	133,093	150,000
LINDA HALL LIBRARY	+	821,937	25,496	25,491	2,729	9,459	4,372	13,831
NATL. AGRICULTURAL LIB.	+	2,292,524	36,503	24,731	5,727	5,398	18,134	23,532
NATL. LIBRARY OF CANADA	+	6,617,560	U/A	289,109	6,675	1,603	33,849	35,452
NATL. LIBRARY OF MEDICINE	M+	2,260,950	43,405	37,734	14,493	18,605	4,502	23,107
NEW YORK PUBLIC LIBRARY	G	7,680,436	145,204	139,256	63,727	U/A	U/A	28,459
NEW YORK STATE LIBRARY	LM+	2,404,086	36,870	36,682	8,120	6,423	5,680	12,103
SMITHSONIAN INSTITUTION	BG+	1,215,848	12,898	8,086	7,409	2,984	3,142	6,126

+ - See Footnotes
L - Includes Law Library
M - Includes Medical Library
G - Government Documents Not Included in Serials Count
B - Includes Branch Campuses
G - Bibliographic Count
U/A - Unavailable
N/A - Not Applicable

BEST COPY AVAILABLE

COLLECTIONS

Microform Units	Government Documents	Computer Files	Archives and Manus	Cartographic Materials	Graphic Materials	Audio Materials	Video and Film	
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(Survey Question #)
								INSTITUTION
2,919,769	387,530	1,314	237	69,110	60,325	13,326	1,312	SASKATCHEWAN
4,651,675	813,203	2,431	7,179	310,639	250,000	31,493	9,428	SOUTH CAROLINA
3,665,280	487,581	2,881	42,964	U/A	3,189,832	26,128	14,493	SOUTHERN CALIFORNIA
4,087,976	430,955	4,993	18,617	316,980	20,244	25,248	13,196	SOUTHERN ILLINOIS
4,975,102	39,063	6,661	67,958	266,003	663,748	323,101	24,928	STANFORD
2,683,129	0	7,726	3,959	49,427	47,614	4,898	2,894	SUNY-ALBANY
3,066,342	U/A	2,705	7,400	108,189	113,200	38,764	3,348	SUNY-BUFFALO
3,683,403	229,695	941	3,450	122,237	9,180	31,008	3,689	SUNY-STONY BROOK
3,762,171	311,816	2,053	33,392	189,513	377,148	359,436	9,758	SYRACUSE
2,694,297	205,446	2,179	32,697	115,129	10,000,000	20,167	2,814	TEMPLE
3,468,310	6,062	1,998	8,199	350,052	143,406	29,033	8,101	TENNESSEE
5,515,025	0	4,040	97,144	333,566	8,000,134	117,626	14,753	TEXAS
4,723,229	65,519	7,512	13,271	163,634	335,564	9,834	10,371	TEXAS A&M
2,072,490	4,222	7,592	12,256	68,702	334,944	11,101	13,129	TEXAS TECH
4,512,455	U/A	6,863	27,195	278,201	457,136	177,964	17,649	TORONTO
2,451,547	1,060,717	1,340	36,563	5,635	244,818	81,357	2,417	TULANE
3,433,383	797,021	4,005	19,255	207,397	835,544	37,178	17,421	UTAH
2,774,290	242,372	5,088	8,581	103,852	13,818	24,753	4,611	VANDERBILT
5,038,216	713,680	13,997	22,698	141,511	420,932	33,746	17,777	VIRGINIA
6,043,349	399,525	7,250	5,400	131,472	65,173	8,640	8,870	VIRGINIA TECH
6,869,806	0	7,805	39,373	135,897	935,136	67,260	12,464	WASHINGTON
3,839,615	U/A	U/A	16,838	736	275,450	11,084	26,922	WASHINGTON STATE
2,977,926	U/A	7,440	13,839	110,547	6,274	28,537	6,826	WASHINGTON U-ST. LOUIS
1,484,870	U/A	344	3,200	138,051	U/A	1,354	66	WATERLOO
3,462,433	400,336	1,816	75,000	31,761	1,700,000	38,070	19,329	WAYNE STATE
3,478,698	0	1,208	3,402	2,081	31,202	11,130	2,738	WESTERN ONTARIO
4,500,989	280,259	6,798	2,801	263,612	31,317	190,784	16,202	WISCONSIN
6,671,642	1,093,167	U/A	33,969	141,557	2,235,134	189,364	4,750	YALE
3,600,740	0	825	7,041	108,633	8,645	41,573	7,748	YORK
6,067,424	1,631,871	1,444	N/A	N/A	N/A	42,412	32,530	BOSTON PUBLIC LIBRARY
3,500,000	0	1,506	0	0	0	N/A	193	CANADA INST. FOR SCITECH
1,362,413	U/A	1	0	U/A	U/A	U/A	U/A	CENTER FOR RESEARCH LIBS
12,171,496	N/A	42,422	30,682	4,481,334	13,671,835	2,374,011	613,077	LIBRARY OF CONGRESS
1,252,808	357,181	422	N/A	76,730	0	20	92	LINDA HALL LIBRARY
1,068,235	N/A	1,316	18,491	N/A	1,105	N/A	3,410	NATL. AGRICULTURAL LIB.
6,252,463	3,241,263	128	6,525	N/A	89,135	201,569	2,655	NATL. LIBRARY OF CANADA
492,500	0	1,408	U/A	0	56,601	0	63,782	NATL. LIBRARY OF MEDICINE
5,174,854	9,280	U/A	24,377	420,350	4,226,449	334,137	14,918	NEW YORK PUBLIC LIBRARY
6,611,142	N/A	3,050	26,000	199,500	68,000	50	10	NEW YORK STATE LIBRARY
184,515	U/A	18	5,102	6	2	15	24	SMITHSONIAN INSTITUTION

U/A - Unavailable N/A - Not Applicable

ARL Library Data Tables 1997-98

Summary Data: Collections

(Survey Question #)	Volumes in Library (1)	Volumes Added (Gross) (2)	Volumes Added (Net) (3)	Mono-graphs Purchased (Volumes) (4)	Current Serials Purchased (Subs.) (5)	Current Serials Not Purchased (6)	Current Serials Total (7)
UNIVERSITY LIBRARIES:							
Median	2,713,146	73,882	60,564	28,976	14,533	6,116	21,888
High	13,892,429	310,016	285,193	166,628	47,033	34,670	105,449
Low	1,736,771	29,459	-1,081	10,354	6,356	167	8,156
Totals	390,315,151	9,575,089	7,900,007	3,471,988	1,369,621	631,571	3,087,786
Number of Libraries Responding	111	111	111	95	80	80	111
NONUNIVERSITY LIBRARIES:							
Median	3,144,233	38,043	36,682	7,409	6,423	5,680	23,107
Totals	65,490,792	934,981	1,046,441	416,750	61,379	202,772	349,060
Number of Libraries Responding	11	10	11	11	7	7	11
GRAND TOTALS	455,805,943	10,510,070	8,946,448	3,888,738	1,431,000	834,343	3,436,846

ARL Library Data Tables 1997-98

Summary Data: Collections

Microform Units	Government Documents	Computer Files	Archives and Manus	Carto-graphic Materials	Graphic Materials	Audio Materials	Video and Film	
(9)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(Survey Question #)
								UNIVERSITY LIBRARIES:
3,716,738	282,321	4,040	12,941	181,693	186,596	31,251	8,699	Median
8,449,472	2,903,206	23,859	209,812	3,591,039	10,000,000	359,436	130,193	High
1,239,311	0	230	0	0	0	795	66	Low
437,473,935	41,284,042	490,025	2,236,925	26,490,819	62,122,129	5,305,220	1,286,006	Totals
111	96	103	106	107	103	104	104	Number of Libraries Responding
								NONUNIVERSITY LIBRARIES:
1,500,000	183,150	1,362	12,508	76,730	56,601	21,231	3,033	Median
44,337,940	5,239,434	53,715	133,177	5,177,920	18,113,127	3,157,244	950,691	Totals
11	6	10	8	7	9	8	10	Number of Libraries Responding
491,811,875	46,524,276	543,740	2,370,102	31,668,739	80,235,256	8,462,464	2,236,697	**GRAND TOTALS:**

ARL Library Data Tables 1997-98

Expenditures

(Survey Question #)		Monographs (16)	Current Serials (17)	Other Library Materials (18)	Misc. Materials (19)	Total Library Materials (20)	Contract Binding (21)
INSTITUTION	Notes						
ALABAMA	LM+	858,716	2,824,434	11,222	32,168	3,726,540	180,195
ALBERTA	LM+	1,945,091	3,890,005	0	337,066	6,172,162	111,630
ARIZONA	bLM+	2,288,445	4,863,754	518,177	672,858	8,343,234	249,249
ARIZONA STATE	L+	2,097,175	5,163,226	748,006	241,929	8,250,336	236,051
AUBURN	+	1,325,284	2,606,075	349,614	50,158	4,331,131	116,847
BOSTON	LM+	735,847	3,708,263	361,150	125,195	4,930,455	203,998
BRIGHAM YOUNG	+	1,470,005	2,720,524	512,085	52,443	4,755,057	228,723
BRITISH COLUMBIA	LM+	2,031,125	4,522,999	U/A	684,938	7,239,062	120,759
BROWN	M+	1,515,508	2,975,251	65,200	141,359	4,697,318	193,047
CALIFORNIA, BERKELEY	L+	4,638,931	6,301,689	U/A	U/A	10,940,620	817,330
CALIFORNIA, DAVIS	bLM+	1,983,685	3,582,116	74,551	298,843	5,939,195	260,914
CALIFORNIA, IRVINE	M+	1,120,362	2,790,785	47,690	500,000	4,458,837	204,465
CALIFORNIA, LOS ANGELES	LM+	4,229,301	4,426,244	633,468	317,275	9,606,288	556,955
CALIFORNIA, RIVERSIDE	+	1,176,367	2,327,806	89,949	23,465	3,617,587	183,272
CALIFORNIA, SAN DIEGO	M+	1,687,993	3,818,832	139,011	48,740	5,694,576	324,584
CALIFORNIA, SANTA BARBARA	+	795,915	2,520,400	U/A	U/A	3,316,315	184,050
CASE WESTERN RESERVE	LM+	692,451	3,570,387	48,641	2,377	4,313,856	114,546
CHICAGO	bLM+	2,911,068	4,932,919	74,964	0	7,918,951	468,162
CINCINNATI	LM+	1,444,679	4,180,175	259,907	182,790	6,067,551	145,397
COLORADO	bL+	1,498,697	4,244,657	1,445,695	366,695	7,555,744	217,709
COLORADO STATE	+	1,129,616	2,903,703	61,856	433,130	4,528,305	59,960
COLUMBIA	LM+	4,823,424	6,618,021	0	0	11,441,445	739,242
CONNECTICUT	BGLM+	947,177	4,086,454	409,365	148,569	5,591,565	263,522
CORNELL	BL+	3,697,975	5,648,455	1,059,796	209,432	10,615,658	203,430
DARTMOUTH	M+	1,486,108	2,955,559	620,907	0	5,062,574	201,442
DELAWARE	+	1,966,200	2,944,338	64,232	293,688	5,268,458	120,648
DUKE	GLM+	3,262,426	5,663,328	165,575	440,230	9,531,559	271,482
EMORY	BLM+	3,410,392	3,933,193	1,376,785	136,113	8,856,483	184,445
FLORIDA	LM+	2,159,036	4,808,816	1,321,073	652,124	8,941,049	225,859
FLORIDA STATE	BGL+	1,114,572	3,594,761	5,989	510,454	5,225,776	219,868
GEORGE WASHINGTON	LM+	1,189,822	3,367,807	70,633	727,269	5,355,531	82,884
GEORGETOWN	LM+	1,432,583	4,245,285	494,093	114,366	6,286,327	222,566
GEORGIA	L+	2,100,173	4,527,976	1,083,297	438,372	8,149,818	295,829
GEORGIA TECH	+	992,662	2,944,733	345,293	0	4,282,688	80,501
GUELPH	bG+	553,356	1,711,505	U/A	40,224	2,305,086	61,334
HARVARD	LM+	7,533,857	7,582,880	4,199,034	30,340	19,346,111	1,001,927
HAWAII	+	821,151	2,746,397	40,860	0	3,608,408	260,537
HOUSTON	GL+	1,205,135	2,813,960	578,325	266,696	4,864,116	124,493
HOWARD	GLM+	433,223	3,266,666	44,494	1,057,171	4,801,554	96,000
ILLINOIS, CHICAGO	M+	1,144,156	3,621,008	32,082	0	4,797,246	135,497
ILLINOIS, URBANA	L+	2,592,256	5,065,542	105,942	1,002,430	8,766,170	224,016

+ - See Footnotes
L - Includes Law Library
M - Includes Medical Library
G - Government Documents Not Included in Serials Count
B - Includes Branch Campuses
b - Bibliographic Count
U/A - Unavailable
N/A - Not Applicable

BEST COPY AVAILABLE

ARL Library Data Tables 1997-98

Expenditures

Salaries & Wages Professional Staff	Salaries & Wages Support Staff	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expenditures	Total Library Expenditures	
(22)	(23)	(24)	(25)	(26)	(27)	(Survey Question #)
						INSTITUTION
1,984,969	1,393,027	535,206	3,913,202	2,199,164	10,019,101	ALABAMA
2,697,397	4,512,309	412,217	7,621,923	1,586,430	15,492,145	ALBERTA
3,956,523	3,630,739	963,722	8,550,984	3,210,188	20,353,655	ARIZONA
4,156,742	4,556,178	785,227	9,498,147	2,809,900	20,794,434	ARIZONA STATE
1,947,207	1,481,908	363,077	3,792,192	1,026,476	9,266,646	AUBURN
3,577,933	2,572,937	445,663	6,596,533	1,842,734	13,573,720	BOSTON
4,239,608	1,076,220	1,712,749	7,028,577	1,821,800	13,834,157	BRIGHAM YOUNG
4,039,796	5,208,109	1,202,725	10,450,630	2,054,983	19,865,433	BRITISH COLUMBIA
3,485,368	2,719,485	368,698	6,573,551	3,621,081	15,084,997	BROWN
U/A	U/A	U/A	19,757,589	4,447,223	35,962,762	CALIFORNIA, BERKELEY
3,154,223	4,695,138	829,948	8,679,309	1,232,026	16,111,444	CALIFORNIA, DAVIS
3,336,202	3,625,254	1,091,217	8,052,673	1,771,166	14,487,141	CALIFORNIA, IRVINE
7,199,704	9,983,474	2,221,210	19,404,388	7,509,963	37,077,594	CALIFORNIA, LOS ANGELES
2,221,982	2,101,606	521,542	4,845,130	684,031	9,330,020	CALIFORNIA, RIVERSIDE
3,809,499	4,753,352	1,130,354	9,693,205	2,453,723	18,166,088	CALIFORNIA, SAN DIEGO
2,306,614	3,170,758	768,022	6,245,394	1,715,824	11,461,583	CALIFORNIA, SANTA BARBARA
3,146,237	1,501,712	452,627	5,100,576	1,252,339	10,781,317	CASE WESTERN RESERVE
3,223,700	4,668,800	1,247,761	9,140,261	3,757,486	21,284,860	CHICAGO
3,355,383	3,334,731	914,185	7,604,299	2,705,282	16,522,529	CINCINNATI
2,270,539	3,609,670	809,005	6,689,214	1,542,608	16,005,275	COLORADO
1,670,181	2,204,207	599,476	4,473,864	720,370	9,782,499	COLORADO STATE
7,913,420	6,143,041	1,312,153	15,368,614	3,194,047	30,743,348	COLUMBIA
4,687,422	3,177,377	772,418	8,637,217	2,641,738	17,134,042	CONNECTICUT
8,246,844	3,428,921	969,193	14,644,958	4,052,863	29,516,909	CORNELL
2,514,673	2,653,522	330,848	5,501,043	1,159,993	11,925,052	DARTMOUTH
2,565,794	2,407,128	463,286	5,436,208	1,130,330	11,955,644	DELAWARE
5,464,722	4,160,725	594,519	10,219,966	3,896,238	23,919,245	DUKE
3,975,243	3,822,934	688,948	8,487,125	4,560,948	22,089,001	EMORY
4,150,532	4,212,062	1,039,952	9,402,546	2,221,605	20,791,059	FLORIDA
2,077,737	1,966,037	553,992	4,597,766	1,140,380	11,183,790	FLORIDA STATE
2,893,466	2,801,493	461,414	6,156,373	2,148,307	13,743,095	GEORGE WASHINGTON
3,808,894	3,472,926	793,026	8,074,846	2,979,320	17,563,059	GEORGETOWN
3,372,849	3,992,327	798,839	8,164,015	2,215,597	18,825,259	GEORGIA
2,131,127	1,253,521	89,753	3,474,401	1,179,514	9,017,104	GEORGIA TECH
1,059,874	2,279,678	104,959	3,444,510	1,292,153	7,103,082	GUELPH
21,105,969	15,901,860	1,242,662	38,250,491	17,215,751	75,814,280	HARVARD
2,870,222	2,118,636	1,013,017	6,001,875	617,985	10,488,805	HAWAII
2,148,576	1,515,000	773,217	4,436,793	1,623,825	11,049,227	HOUSTON
2,230,313	2,028,124	474,820	4,733,257	5,229,215	14,860,026	HOWARD
3,154,808	3,857,002	447,827	7,459,637	2,053,965	14,446,345	ILLINOIS, CHICAGO
7,105,453	5,863,372	1,252,090	14,220,915	2,995,693	26,206,794	ILLINOIS, URBANA

U/A - Unavailable N/A - Not Applicable

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ARL Library Data Tables 1997-98

Expenditures

INSTITUTION	Notes	Monographs (16)	Current Serials (17)	Other Library Materials (18)	Misc. Materials (19)	Total Library Materials (20)	Contract Binding (21)
INDIANA	L+	2,768,666	4,397,379	1,508,522	341,873	9,016,440	318,288
IOWA	LM+	2,049,967	3,981,157	1,376,609	278,520	7,686,253	210,245
IOWA STATE	**+**	**1,352,084**	**4,122,034**	**337,840**	**164,636**	**5,976,594**	**173,164**
JOHNS HOPKINS	**BM+**	**1,967,627**	**4,719,741**	**1,612,163**	**295,389**	**8,594,920**	**133,422**
KANSAS	**BLM+**	**2,013,457**	**3,649,466**	**155,270**	**130,613**	**5,948,806**	**183,077**
KENT STATE	B+	799,697	1,989,469	64,553	51,140	2,904,859	100,347
KENTUCKY	LM+	1,170,255	4,177,739	60,800	484,899	5,893,693	166,229
LAVAL	LM+	1,249,231	3,215,273	130,991	68,378	4,663,873	9,466
LOUISIANA STATE	**L+**	**1,015,927**	**2,817,721**	**316,051**	**0**	**4,149,699**	**130,272**
MCGILL	**bLM+**	**1,831,761**	**2,863,379**	**632,024**	**260,803**	**5,587,968**	**211,677**
MCMASTER	**M+**	**823,732**	**2,643,246**	**18,823**	**21,253**	**3,507,054**	**100,273**
MANITOBA	GLM+	825,986	2,129,080	U/A	119,857	3,074,923	121,912
MARYLAND	+	1,804,171	3,432,334	578,474	24,446	5,839,425	201,430
MASSACHUSETTS	+	1,014,713	3,130,311	51,463	72,593	4,269,080	122,711
MIT	**+**	**802,039**	**3,310,387**	**0**	**56,155**	**4,168,581**	**218,306**
MIAMI	**LM+**	**942,122**	**4,591,502**	**U/A**	**261,599**	**5,795,223**	**133,695**
MICHIGAN	**LM+**	**4,936,710**	**8,469,781**	**225,793**	**626,627**	**14,258,911**	**378,278**
MICHIGAN STATE	+	1,633,227	4,116,514	U/A	103,567	5,853,308	297,433
MINNESOTA	bLM+	2,160,401	5,704,157	638,968	829,926	9,333,452	300,590
MISSOURI	LM+	1,201,220	3,534,076	6,982	64,342	4,806,620	152,328
NEBRASKA	**L+**	**1,023,173**	**3,912,552**	**173,804**	**42,162**	**5,151,691**	**189,910**
NEW MEXICO	**bLM+**	**1,614,672**	**3,012,472**	**235,834**	**79,551**	**4,942,529**	**156,376**
NEW YORK	**LM+**	**3,283,519**	**4,447,807**	**1,002,020**	**126,214**	**8,859,560**	**627,054**
NORTH CAROLINA	LM+	2,455,392	4,497,219	1,540,777	469,933	8,963,321	367,234
NORTH CAROLINA STATE	+	1,729,430	4,290,076	324,632	331,044	6,875,182	206,173
NORTHWESTERN	BLM+	1,902,196	4,287,355	362,469	481,173	7,033,193	169,053
NOTRE DAME	**GL+**	**2,423,994**	**3,257,679**	**488,280**	**121,177**	**6,291,130**	**143,545**
OHIO	**BM+**	**1,132,996**	**2,214,476**	**773,511**	**31,744**	**4,152,727**	**74,801**
OHIO STATE	**bLM+**	**2,754,310**	**6,412,600**	**U/A**	**U/A**	**9,166,910**	**263,828**
OKLAHOMA	GLM	1,127,891	3,472,876	466,645	216,584	5,283,996	122,847
OKLAHOMA STATE	BM+	1,074,928	2,372,919	79,188	580,166	4,107,201	116,426
OREGON	L+	1,388,785	3,172,584	U/A	606,692	5,168,061	145,422
PENNSYLVANIA	**LM+**	**2,825,624**	**5,798,143**	**536,789**	**U/A**	**9,160,556**	**295,993**
PENNSYLVANIA STATE	**BLM+**	**3,343,442**	**6,699,409**	**1,263,578**	**390,983**	**11,697,412**	**513,602**
PITTSBURGH	**BLM+**	**2,047,163**	**4,798,031**	**177,110**	**389,024**	**7,411,328**	**301,824**
PRINCETON	+	3,358,273	4,622,746	849,775	1,352,370	10,183,164	511,193
PURDUE	b+	821,488	3,814,162	U/A	0	4,635,650	131,758
QUEEN'S	bGLM+	951,620	2,743,789	25,567	33,951	3,754,926	117,547
RICE	**+**	**2,574,474**	**3,086,674**	**240,535**	**213,930**	**6,115,613**	**70,005**
ROCHESTER	**GM+**	**1,001,061**	**3,262,148**	**220,727**	**47,653**	**4,531,589**	**109,815**
RUTGERS	**BL+**	**1,486,764**	**4,645,126**	**802,601**	**718,965**	**7,653,456**	**217,823**

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ARL Library Data Tables 1997-98

Expenditures

Salaries & Wages Professional Staff	Salaries & Wages Support Staff	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expenditures	Total Library Expenditures	
(22)	(23)	(24)	(25)	(26)	(27)	(Survey Question #)
						INSTITUTION
6,128,787	4,274,487	1,939,359	12,342,633	2,508,297	24,185,658	INDIANA
4,517,208	3,564,175	959,096	9,040,479	3,158,065	20,095,042	IOWA
2,019,800	3,344,197	566,307	5,930,304	1,806,662	13,886,724	IOWA STATE
3,934,464	4,564,121	546,448	9,045,033	4,001,586	21,774,961	JOHNS HOPKINS
3,673,830	2,639,810	987,450	7,301,090	1,896,398	15,329,371	KANSAS
3,222,496	2,258,202	741,918	6,222,616	1,276,163	10,503,985	KENT STATE
4,280,907	2,290,753	1,389,882	7,961,542	3,396,796	17,418,260	KENTUCKY
2,410,576	3,605,975	52,811	6,069,362	467,279	11,209,980	LAVAL
1,950,703	2,413,433	585,359	4,949,495	1,583,760	10,813,226	LOUISIANA STATE
2,648,688	3,431,633	544,662	6,624,983	678,380	13,103,008	MCGILL
1,317,288	2,533,858	121,852	3,972,999	832,492	8,412,818	MCMASTER
2,154,697	2,796,257	373,537	5,324,490	1,154,291	9,675,616	MANITOBA
3,800,487	4,372,697	1,039,467	9,212,651	638,440	15,891,946	MARYLAND
2,656,402	2,477,139	437,010	5,570,551	1,192,243	11,154,585	MASSACHUSETTS
3,181,198	2,642,183	333,227	6,156,608	1,828,445	12,371,940	MIT
3,425,380	2,188,311	331,949	5,945,640	1,615,182	13,489,740	MIAMI
6,488,348	7,760,257	1,692,116	15,940,721	4,169,276	34,747,186	MICHIGAN
2,430,707	3,496,874	1,870,719	7,798,300	2,646,940	16,595,981	MICHIGAN STATE
5,049,507	5,972,041	2,236,149	13,257,697	5,398,057	28,489,796	MINNESOTA
2,534,489	2,331,760	498,661	5,364,910	1,101,995	11,425,853	MISSOURI
2,205,766	2,276,915	522,595	5,005,276	1,139,440	11,486,317	NEBRASKA
2,948,515	4,351,395	1,964,132	9,264,042	3,135,136	17,498,083	NEW MEXICO
5,117,725	6,680,264	1,314,089	13,112,078	4,104,713	26,703,405	NEW YORK
3,644,423	4,845,755	824,839	11,315,017	3,699,761	24,345,333	NORTH CAROLINA
3,040,960	3,012,932	865,223	6,919,115	3,210,288	17,210,758	NORTH CAROLINA STATE
4,945,528	3,414,254	828,716	9,188,498	2,029,635	18,420,379	NORTHWESTERN
2,516,530	3,271,229	404,305	6,192,064	2,405,703	15,032,442	NOTRE DAME
2,311,025	1,944,593	675,219	4,930,837	1,499,908	10,658,273	OHIO
4,683,881	4,847,975	1,376,068	10,907,924	2,136,038	22,474,700	OHIO STATE
2,017,546	1,332,362	582,582	3,932,490	1,546,695	10,886,028	OKLAHOMA
2,148,320	1,001,473	493,497	3,643,290	1,278,869	9,145,786	OKLAHOMA STATE
2,262,951	2,347,831	803,422	5,414,204	1,949,231	12,676,918	OREGON
5,374,173	5,442,719	1,020,485	11,837,377	7,544,145	28,838,071	PENNSYLVANIA
5,297,450	8,827,233	1,086,802	15,211,485	4,697,021	32,119,520	PENNSYLVANIA STATE
3,955,604	3,734,770	944,376	8,634,750	2,916,430	19,264,332	PITTSBURGH
6,403,669	5,394,431	603,935	12,402,035	3,921,883	27,018,275	PRINCETON
2,516,968	2,689,075	594,910	5,800,953	2,768,182	13,336,543	PURDUE
1,398,854	2,884,368	241,480	4,524,702	492,831	8,890,007	QUEEN'S
2,201,507	1,318,050	178,082	3,697,639	532,790	10,416,047	RICE
3,227,790	1,611,844	481,018	5,320,652	2,223,800	12,185,856	ROCHESTER
6,574,484	7,472,977	1,367,661	15,415,122	1,835,905	25,122,306	RUTGERS

[illegible] A - Unavailable N/A - Not Applicable

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EXPENDITURES

INSTITUTION	Notes	Monographs (16)	Current Serials (17)	Other Library Materials (18)	Misc. Materials (19)	Total Library Materials (20)	Contract Binding (21)
SASKATCHEWAN	LM+	868,002	2,760,552	U/A	133,539	3,762,094	71,509
SOUTH CAROLINA	LM+	1,402,163	3,626,203	483,763	36,590	5,548,719	217,596
SOUTHERN CALIFORNIA	BLM+	1,464,097	4,820,571	385,124	1,047,594	7,717,386	245,412
SOUTHERN ILLINOIS	GL+	764,176	3,196,227	135,055	639,130	4,734,588	136,206
STANFORD	GLM+	7,688,622	6,875,584	U/A	U/A	14,564,206	625,872
SUNY-ALBANY	B+	922,678	2,137,420	235,303	335,909	3,631,310	76,665
SUNY-BUFFALO	GLM+	1,102,985	3,225,344	659,838	106,477	5,094,644	145,000
SUNY-STONY BROOK	M+	739,677	3,048,582	261,437	606,484	4,656,180	125,757
SYRACUSE	bL+	750,151	2,605,431	154,072	223,921	3,733,575	60,683
TEMPLE	BLM	1,028,755	3,473,843	167,441	6,732	4,676,771	168,379
TENNESSEE	BL+	1,186,505	3,507,994	403,867	80,952	5,179,318	129,800
TEXAS	L+	4,094,592	5,047,738	1,117,385	47,455	10,307,170	229,772
TEXAS A&M	bBM+	2,368,676	4,311,460	1,799,590	97,844	8,577,570	169,413
TEXAS TECH	BLM+	1,392,271	3,413,131	392,879	243,184	5,441,465	94,676
TORONTO	BLM+	5,495,046	6,414,545	1,204,756	U/A	13,114,346	287,522
TULANE	GLM+	836,154	2,849,377	172,639	220,036	4,078,206	155,349
UTAH	LM+	2,033,019	4,178,200	528,715	88,196	6,828,130	208,463
VANDERBILT	LM+	1,776,137	3,954,398	578,541	0	6,309,076	184,633
VIRGINIA	LM+	2,141,786	4,487,774	688,129	294,454	7,612,143	202,011
VIRGINIA TECH	+	812,908	4,155,583	30,266	440,288	5,439,045	155,859
WASHINGTON	LM+	2,189,299	6,238,064	U/A	190,540	8,617,903	268,878
WASHINGTON STATE	B+	931,887	3,449,705	61,860	121,123	4,564,575	125,879
WASHINGTON U.-ST. LOUIS	GLM+	1,491,994	4,236,868	169,677	985,002	6,883,541	120,253
WATERLOO	+	685,309	2,318,024	U/A	203,130	3,206,464	62,128
WAYNE STATE	bLM+	1,568,488	3,279,709	U/A	548,821	5,397,018	128,375
WESTERN ONTARIO	L+	1,128,277	3,694,504	U/A	239,736	5,062,518	136,013
WISCONSIN	LM+	2,169,261	4,583,804	1,383,003	0	8,136,068	227,668
YALE	LM+	3,642,000	5,784,000	6,970,000	0	16,396,000	493,000
YORK	BL+	1,229,893	2,544,825	79,483	208,160	4,062,362	141,092
BOSTON PUBLIC LIBRARY	+	2,257,167	2,378,607	798,085	173,738	5,607,597	167,255
CANADA INST. FOR SCITECH.	B+	367,384	5,020,459	N/A	35,366	5,409,101	N/A
CENTER FOR RESEARCH LIBS.	bG+	57,355	321,537	756,312	18,227	1,153,431	0
LIBRARY OF CONGRESS	L+	2,202,061	1,965,347	2,041,372	78,225	6,287,005	1,426,133
LINDA HALL LIBRARY	+	174,323	2,084,676	32,561	0	2,291,560	62,065
NATL. AGRICULTURAL LIB.	+	308,617	1,941,125	U/A	0	2,249,742	98,200
NATL. LIBRARY OF CANADA	+	373,763	399,157	343,988	46,341	1,163,249	8,283
NATL. LIBRARY OF MEDICINE	M+	1,018,000	4,019,000	230,000	N/A	5,267,000	222,000
NEW YORK PUBLIC LIBRARY	G	4,687,296	3,712,909	1,965,025	2,465	10,367,695	410,514
NEW YORK STATE LIBRARY	LM+	595,442	1,588,110	N/A	N/A	2,183,552	13,199
SMITHSONIAN INSTITUTION	BG+	528,786	903,596	49,962	155,696	1,638,040	62,516

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b - Bibliographic Count
U/A - Unavailable
N/A - Not Applicable

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EXPENDITURES

Salaries & Wages Professional Staff (22)	Salaries & Wages Support Staff (23)	Salaries & Wages Student Assistants (24)	Total Salaries & Wages (25)	Other Operating Expenditures (26)	Total Library Expenditures (27)	(Survey Question #) INSTITUTION
1,562,240	2,084,552	187,965	3,834,757	686,365	8,354,725	SASKATCHEWAN
3,030,996	2,943,260	517,643	6,491,899	2,973,479	15,231,693	SOUTH CAROLINA
5,396,374	4,006,120	764,808	10,167,302	5,844,566	23,974,666	SOUTHERN CALIFORNIA
2,228,662	1,985,384	1,024,910	5,238,956	987,694	11,097,444	SOUTHERN ILLINOIS
11,439,656	9,769,067	2,146,406	23,355,129	9,023,677	47,568,884	STANFORD
1,938,033	1,845,176	425,318	4,208,527	1,440,290	9,356,792	SUNY-ALBANY
4,668,792	1,989,897	768,483	7,427,172	2,065,949	14,732,765	SUNY-BUFFALO
2,390,719	2,202,763	576,501	5,169,983	647,748	10,599,668	SUNY-STONY BROOK
2,816,226	2,027,907	530,347	5,374,480	1,417,507	10,586,245	SYRACUSE
3,220,170	1,826,141	450,630	5,496,941	1,619,733	11,961,824	TEMPLE
2,852,643	2,555,919	509,497	5,918,059	1,322,039	12,549,216	TENNESSEE
5,916,365	6,770,854	1,100,457	13,787,676	4,419,830	28,744,448	TEXAS
3,995,503	3,184,790	1,094,949	8,275,242	3,508,085	20,530,310	TEXAS A&M
2,827,418	1,680,185	837,682	5,345,285	1,588,280	12,469,706	TEXAS TECH
7,165,668	9,523,674	1,946,666	18,636,008	4,056,920	36,094,797	TORONTO
2,503,777	1,819,643	449,366	4,772,786	2,079,857	11,086,198	TULANE
2,998,018	4,225,915	1,339,326	8,563,259	4,113,817	19,713,669	UTAH
3,889,650	2,949,706	460,025	7,299,381	2,152,493	15,945,583	VANDERBILT
5,310,914	6,071,291	847,309	12,229,514	2,810,738	22,854,406	VIRGINIA
1,554,999	2,351,373	689,499	4,595,871	922,367	11,113,142	VIRGINIA TECH
6,645,098	6,342,838	1,609,951	14,597,887	3,120,520	26,605,188	WASHINGTON
1,911,649	2,972,686	627,744	5,512,079	1,714,289	11,916,822	WASHINGTON STATE
4,163,212	3,273,678	548,833	7,985,723	5,258,647	20,248,164	WASHINGTON U.-ST. LOUIS
1,427,903	2,226,512	294,793	3,949,208	858,687	8,076,487	WATERLOO
3,713,268	2,826,161	1,091,768	7,631,197	2,893,304	16,049,894	WAYNE STATE
U/A	U/A	276,867	4,944,365	591,278	10,734,174	WESTERN ONTARIO
7,810,818	6,093,651	1,928,755	15,833,224	4,989,561	29,186,521	WISCONSIN
9,632,000	7,876,300	884,700	18,393,000	6,827,000	42,109,000	YALE
2,262,944	2,856,477	551,491	5,670,912	1,286,029	11,160,395	YORK
11,777,534	6,276,772	509,237	18,563,543	12,668,440	37,006,835	BOSTON PUBLIC LIBRARY
U/A	U/A	U/A	8,965,297	9,776,997	24,151,396	CANADA INST. FOR SCITECH.
U/A	U/A	U/A	1,403,278	915,244	3,471,953	CENTER FOR RESEARCH LIBS
U/A	U/A	U/A	223,069,000	230,693,862	461,476,000	LIBRARY OF CONGRESS
1,046,939	800,787	0	1,847,726	703,534	4,904,885	LINDA HALL LIBRARY
5,562,981	1,920,514	209,800	7,693,295	8,000,240	18,041,477	NATL. AGRICULTURAL LIB.
7,225,297	5,910,377	161,602	13,297,275	5,535,086	20,003,893	NATL. LIBRARY OF CANADA
9,876,000	2,847,000	383,500	13,106,500	13,458,000	32,053,500	NATL. LIBRARY OF MEDICINE
U/A	19,934,485	1,682,698	21,617,183	11,262,515	43,657,907	NEW YORK PUBLIC LIBRARY
U/A	U/A	N/A	6,330,438	1,172,996	9,900,185	NEW YORK STATE LIBRARY
3,076,950	1,515,026	28,967	4,620,943	382,552	6,704,051	SMITHSONIAN INSTITUTION

U/A - Unavailable N/A - Not Applicable

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ARL Library Data Tables 1997-98

Summary Data: Expenditures

	Monographs	Current Serials	Other Library Materials	Misc. Materials	Total Library Materials	Contract Binding
(Survey Question #)	(16)	(17)	(18)	(19)	(20)	(21)
UNIVERSITY LIBRARIES:						
Median	1,470,005	3,694,504	337,840	190,540	5,591,565	183,272
High	7,688,622	8,469,781	6,970,000	1,352,370	19,346,111	1,001,927
Low	433,223	1,711,505	0	0	2,305,086	9,466
Totals	207,030,943	437,055,978	53,000,952	28,214,136	725,302,010	24,302,600
Number of Libraries Responding	111	111	95	105	111	111
NONUNIVERSITY LIBRARIES:						
Median	528,786	1,965,347	550,150	35,366	2,291,560	80,358
Totals	12,570,195	24,334,523	6,217,305	510,057	43,617,972	2,470,165
Number of Libraries Responding	11	11	8	9	11	10
GRAND TOTALS:	219,601,138	461,390,502	59,218,257	28,724,194	768,919,983	26,772,765

ARL Library Data Tables 1997-98

Summary Data: Expenditures

Salaries & Wages Professional Staff	Salaries & Wages Support Staff	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expenditures	Total Library Expenditures	
(22)	(23)	(24)	(25)	(26)	(27)	(Survey Question #)
						UNIVERSITY LIBRARIES:
3,220,170	3,170,758	753,363	7,028,577	2,065,949	15,084,997	Median
21,105,969	15,901,860	2,236,149	38,250,491	17,215,751	75,814,280	High
1,059,874	1,001,473	52,811	3,444,510	467,279	7,103,082	Low
419,151,091	403,799,827	90,455,667	937,831,673	291,154,165	1,978,590,448	Totals
109	109	110	111	111	111	Number of Libraries Responding
						NONUNIVERSITY LIBRARIES:
6,394,139	2,847,030	209,800	8,965,297	8,880,243	20,013,893	Median
38,565,701	39,204,961	2,975,804	320,714,478	294,569,466	661,372,082	Totals
6	7	7	11	11	11	Number of Libraries Responding
						GRAND TOTALS:
457,716,792	443,004,788	93,431,471	1,258,546,151	585,723,631	2,639,962,530	

ARL Library Data Tables 1997-98

Personnel and Public Services

INSTITUTION	Notes	Professional Staff (FTE) (28)	Support Staff (FTE) (29)	Student Assistants (FTE) (30)	Total Staff (FTE) (31)	Library Presentations to Groups * (32)	Participants in Group Presentations * (33)
ALABAMA	LM+	38	80	55	193	348	4,518
ALBERTA	LM+	61	202	53	316	980	14,534
ARIZONA	bLM+	91	170	97	358	2,509	34,778
ARIZONA STATE	L+	101	210	52	363	705	*14,100*
AUBURN	+	47	83	29	159	779	*17,473*
BOSTON	LM+	74	129	86	289	1,040	12,171
BRIGHAM YOUNG	+	107	52	145	304	1,847	28,785
BRITISH COLUMBIA	LM+	104	228	62	394	1,987	19,644
BROWN	M+	81	104	56	241	145	U/A
CALIFORNIA, BERKELEY	L+	190	249	195	634	6,882	28,835
CALIFORNIA, DAVIS	bLM+	96	169	62	287	590	7,453
CALIFORNIA, IRVINE	M+	52	115	82	249	686 *	13,533
CALIFORNIA, LOS ANGELES	LM+	138	277	202	617	2,341	18,419
CALIFORNIA, RIVERSIDE	+	44	79	44	167	347	9,412
CALIFORNIA, SAN DIEGO	M+	70	170	75	315	1,534	8,007
CALIFORNIA, SANTA BARBARA	+	41	111	65	217	U/A	U/A
CASE WESTERN RESERVE	LM+	74	68	30	172	679	6,592
CHICAGO	bLM+	69	196	71	336	424	3,133
CINCINNATI	LM+	79	106	100	285	1,201	12,686
COLORADO	bL+	55	121	63	239	2,030	14,179
COLORADO STATE	+	44	80	65	189	166	2,912
COLUMBIA	LM+	168	254	94	516	913	10,119
CONNECTICUT	BGLM+	80	108	73	261	441	6,111
CORNELL	BL+	119	282	161	562	1,308	16,287
DARTMOUTH	M+	50	106	30	186	U/A	U/A
DELAWARE	+	54	113	47	214	496	8,024
DUKE	GLM+	118	177	64	359	1,202	11,637
EMORY	BLM+	92	158	47	297	463	6,744
FLORIDA	LM+	110	208	97	415	651	11,818
FLORIDA STATE	BGL+	57	130	60	247	646	9,180
GEORGE WASHINGTON	LM+	68	141	37	246	487	8,081
GEORGETOWN	LM+	78	125	59	262	643	7,550
GEORGIA	L+	87	198	75	360	391	6,623
GEORGIA TECH	+	49	59	4	112	136	1,724
GUELPH	BG+	23	94	9	126	138	1,167
HARVARD	LM+	431	584	173	1,188	U/A	U/A
HAWAII	+	56	87	79	222	155	2,274
HOUSTON	GL+	60	81	63	204	520	9,043
HOWARD	GLM+	56	82	50	188	157	2,750
ILLINOIS, CHICAGO	M+	71	164	38	273	796	10,274
ILLINOIS, URBANA	L+	177	251	115	543	986	40,456

+ - See Footnotes
L - Includes Law Library
M - Includes Medical Library
B - Includes Branch Campuses
N/A - Not Applicable
U/A - Unavailable
* Figures in italics are derived from a sampling method rather than an actual annual count

ARL Library Data Tables 1997-98

Personnel and Public Services

Reference Transactions *	Initial Circulation Transactions	Total Circulation Transactions	Total Items Loaned (ILL)	Total Items Borrowed (ILL/DD)	
(34)	(35)	(36)	(37)	(38)	(Survey Question #)
					INSTITUTION
104,076	245,231	288,394	8,938	10,439	ALABAMA
245,141	U/A	1,188,941	68,189	34,113	ALBERTA
138,326	601,116	996,899	33,535	26,581	ARIZONA
271,727	531,363	1,053,023	35,533	23,323	ARIZONA STATE
170,550	302,371	336,269	15,410	9,799	AUBURN
66,185	377,147	456,571	17,046	18,126	BOSTON
198,718	633,395	733,720	28,168	17,712	BRIGHAM YOUNG
259,224	1,101,503	3,234,619	45,134	23,929	BRITISH COLUMBIA
63,341	231,403	272,192	13,071	17,656	BROWN
191,450	910,453	U/A	50,119	23,540	CALIFORNIA, BERKELEY
174,748	U/A	594,191	42,886	18,749	CALIFORNIA, DAVIS
128,735	244,350	442,208	26,528	25,342	CALIFORNIA, IRVINE
480,114	U/A	U/A	72,362	14,186	CALIFORNIA, LOS ANGELES
51,918	U/A	321,239	14,937	18,040	CALIFORNIA, RIVERSIDE
182,053	374,303	538,833	35,939	27,379	CALIFORNIA, SAN DIEGO
U/A	U/A	U/A	24,516	29,821	CALIFORNIA, SANTA BARBARA
83,223	135,498	179,170	84,844	45,301	CASE WESTERN RESERVE
69,004	477,920	724,930	33,680	19,573	CHICAGO
235,474	359,442	534,361	84,454	69,505	CINCINNATI
238,297	651,853	1,014,697	46,909	17,581	COLORADO
193,480	179,259	292,536	1,304	128,487	COLORADO STATE
150,475	485,491	798,503	33,844	18,316	COLUMBIA
66,428	U/A	282,421	53,529	31,217	CONNECTICUT
193,650	U/A	1,105,680	31,080	18,882	CORNELL
U/A	220,034	279,797	14,350	15,341	DARTMOUTH
230,526	U/A	437,386	16,297	15,653	DELAWARE
137,037	380,077	522,942	68,664	13,882	DUKE
108,293	230,237	386,109	35,825	17,341	EMORY
215,237	722,473	1,724,403	47,102	19,571	FLORIDA
232,610	331,076	412,260	39,702	17,126	FLORIDA STATE
179,404	347,885	388,245	35,710	36,538	GEORGE WASHINGTON
147,644	267,885	530,208	15,855	9,087	GEORGETOWN
122,099	U/A	510,310	38,707	11,202	GEORGIA
85,680	93,705	296,074	12,049	3,231	GEORGIA TECH
53,134	U/A	296,785	7,727	12,944	GUELPH
U/A	U/A	1,683,961	42,825	29,618	HARVARD
131,093	432,931	518,838	21,263	11,248	HAWAII
146,146	266,350	378,210	28,205	15,176	HOUSTON
95,900	147,632	216,351	7,793	3,737	HOWARD
149,257	264,992	488,198	58,500	65,006	ILLINOIS, CHICAGO
434,536	U/A	1,355,274	65,895	55,418	ILLINOIS, URBANA

U/A - Unavailable N/A - Not Applicable

* Figures in italics are derived from a sampling method rather than an actual annual count

ARL Library Data Tables 1997-98

Personnel and Public Services

(Survey Question #)		Professional Staff (FTE) (28)	Support Staff (FTE) (29)	Student Assistants (FTE) (30)	Total Staff (FTE) (31)	Library Presentations to Groups * (32)	Participants in Group Presentations * (33)
INSTITUTION	Notes						
INDIANA	L+	141	204	154	499	769	19,083
IOWA	LM+	93	125	80	298	801	15,840
IOWA STATE	+	**44**	**111**	**58**	**213**	**1,045**	**8,261**
JOHNS HOPKINS	BM+	**97**	**177**	**42**	**316**	**845**	**6,958**
KANSAS	BLM+	**91**	**104**	**87**	**282**	**U/A**	**U/A**
KENT STATE	B+	71	78	86	235	664	8,666
KENTUCKY	LM+	103	123	136	362	972	12,771
LAVAL	LM+	57	164	2	223	1,259	10,387
LOUISIANA STATE	L+	**50**	**105**	**48**	**203**	**964**	***6,917***
MCGILL	bLM+	**60**	**160**	**48**	**268**	**981**	**10,916**
MCMASTER	M+	**33**	**113**	**17**	**163**	**540**	**5,180**
MANITOBA	GLM+	53	146	26	225	1,132	*9,786*
MARYLAND	+	108	121	100	329	723	12,629
MASSACHUSETTS	+	53	87	54	194	560	7,630
MIT	+	**86**	**106**	**25**	**217**	**89**	**3,518**
MIAMI	LM+	**65**	**115**	**41**	**221**	**883**	**4,424**
MICHIGAN	LM+	**145**	**304**	**145**	**594**	**1,048**	**15,438**
MICHIGAN STATE	+	57	112	104	273	490	13,566
MINNESOTA	bLM+	106	192	133	431	858	15,069
MISSOURI	LM+	58	135	53	246	812	10,994
NEBRASKA	L+	**52**	**117**	**45**	**214**	**436**	**6,646**
NEW MEXICO	bLM+	**60**	**184**	**148**	**392**	**2,482**	**26,852**
NEW YORK	LM+	**102**	**224**	**92**	**418**	**722**	**8,642**
NORTH CAROLINA	LM+	123	207	101	431	1,149	18,210
NORTH CAROLINA STATE	+	99	135	76	310	424	5,484
NORTHWESTERN	BLM+	113	136	102	351	775	*8,499*
NOTRE DAME	GL+	**46**	**160**	**31**	**237**	**358**	***7,160***
OHIO	BM+	**58**	**76**	**67**	**201**	**790**	**16,541**
OHIO STATE	bLM+	**108**	**181**	**149**	**438**	**655**	**25,085**
OKLAHOMA	GLM	48	78	56	182	675	10,151
OKLAHOMA STATE	BM+	54	64	65	183	1,324	19,125
OREGON	L+	54	92	74	220	828	8,528
PENNSYLVANIA	LM+	**112**	**173**	**108**	**393**	**778**	**11,861**
PENNSYLVANIA STATE	BLM+	**142**	**345**	**88**	**575**	**2,409**	**37,360**
PITTSBURGH	BLM+	**99**	**180**	**100**	**379**	**1,675**	**20,474**
PRINCETON	+	120	193	57	370	U/A	U/A
PURDUE	b+	63	149	52	264	560	9,356
QUEEN'S	bGLM+	40	120	24	184	558	10,125
RICE	+	**51**	**66**	**13**	**130**	**191**	**3,282**
ROCHESTER	GM+	**78**	**84**	**52**	**214**	**655**	**6,484**
RUTGERS	BL+	**108**	**240**	**109**	**457**	**1,413**	**19,418**

+ - See Footnotes
L - Includes Law Library
M - Includes Medical Library
B - Includes Branch Campuses
N/A - Not Applicable
U/A - Unavailable
* - Figures in italics are derived from a sampling method rather than an actual annual count

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Personnel and Public Services

Reference Transactions * (34)	Initial Circulation Transactions (35)	Total Circulation Transactions (36)	Total Items Loaned (ILL) (37)	Total Items Borrowed (ILL/DD) (38)	(Survey Question #) INSTITUTION
458,445	1,228,000	1,581,736	38,391	31,105	INDIANA
114,588	U/A	591,389	38,671	21,330	IOWA
67,655	**458,156**	**500,463**	**24,679**	**13,339**	**IOWA STATE**
132,058	**384,641**	**634,903**	**24,878**	**19,611**	**JOHNS HOPKINS**
U/A	**U/A**	**1,355,428**	**44,821**	**24,139**	**KANSAS**
106,201	467,536	664,282	19,501	24,745	KENT STATE
201,802	293,306	345,756	29,205	24,661	KENTUCKY
171,638	512,144	877,515	28,258	12,363	LAVAL
204,412	**353,284**	**489,278**	**14,960**	**18,799**	**LOUISIANA STATE**
206,824	**615,490**	**845,273**	**15,055**	**11,096**	**MCGILL**
64,486	**311,536**	**365,225**	**25,121**	**11,954**	**MCMASTER**
79,380	U/A	744,545	22,021	12,217	MANITOBA
273,589	U/A	672,477	21,536	16,561	MARYLAND
108,839	289,941	418,253	17,933	9,612	MASSACHUSETTS
79,651	**422,690**	**564,119**	**24,672**	**12,427**	**MIT**
190,782	**120,226**	**184,067**	**43,271**	**15,551**	**MIAMI**
234,274	**421,945**	***817,544***	**61,710**	**26,683**	**MICHIGAN**
165,500	U/A	617,632	33,721	19,525	MICHIGAN STATE
248,848	663,020	876,162	237,424	17,827	MINNESOTA
107,071	319,843	383,030	42,857	19,076	MISSOURI
83,611	**384,273**	**457,984**	**18,454**	**16,345**	**NEBRASKA**
149,646	**453,820**	**572,651**	**29,411**	**24,561**	**NEW MEXICO**
239,825	**937,985**	**U/A**	**27,223**	**22,884**	**NEW YORK**
221,581	U/A	1,594,411	51,529	12,908	NORTH CAROLINA
132,850	358,742	477,443	18,536	14,043	NORTH CAROLINA STATE
123,857	U/A	366,614	36,119	27,610	NORTHWESTERN
56,516	**289,302**	**375,760**	**20,343**	**11,476**	**NOTRE DAME**
141,808	**335,090**	**571,683**	**65,705**	**52,136**	**OHIO**
733,720	**575,932**	**1,638,824**	**97,760**	**83,762**	**OHIO STATE**
233,284	213,817	265,119	26,254	32,342	OKLAHOMA
101,324	414,292	495,210	18,771	24,332	OKLAHOMA STATE
41,414	523,485	606,395	30,686	13,964	OREGON
396,740	**348,225**	**497,286**	**22,781**	**33,955**	**PENNSYLVANIA**
445,761	**617,070**	**764,140**	**50,663**	**27,993**	**PENNSYLVANIA STATE**
325,340	**470,578**	**583,131**	**42,278**	**10,587**	**PITTSBURGH**
U/A	U/A	1,323,685	17,479	11,260	PRINCETON
162,461	223,573	469,981	21,040	19,180	PURDUE
72,081	358,277	493,401	11,708	9,264	QUEEN'S
U/A	**162,023**	**212,381**	**9,968**	**7,691**	**RICE**
62,975	**243,384**	**387,131**	**25,683**	**17,533**	**ROCHESTER**
378,189	674,720	838,671	18,584	22,891	RUTGERS

U/A - Unavailable N/A - Not Applicable

* Figures in italics are derived from a sampling method rather than an actual annual count

ARL Library Data Tables 1997-98

Personnel and Public Services

		Professional Staff (FTE)	Support Staff (FTE)	Student Assistants (FTE)	Total Staff (FTE)	Library Presentations to Groups *	Participants in Group Presentations *
(Survey Question #)		(28)	(29)	(30)	(31)	(32)	(33)
INSTITUTION	Notes						
SASKATCHEWAN	LM+	41	114	12	167	436	8,089
SOUTH CAROLINA	LM+	78	129	70	277	420	6,123
SOUTHERN CALIFORNIA	BLM+	98	142	99	339	*1,426*	*21,617*
SOUTHERN ILLINOIS	GL+	49	97	83	229	1,223	9,146
STANFORD	GLM+	197	293	111	601	1,976	6,913
SUNY-ALBANY	B+	48	79	37	164	590	7,268
SUNY-BUFFALO	GLM+	104	79	78	261	896	*16,425*
SUNY-STONY BROOK	M+	44	76	52	172	479	6,477
SYRACUSE	bL+	80	125	63	268	630	9,511
TEMPLE	BLM	72	102	51	225	231	4,203
TENNESSEE	BL+	67	137	49	253	323	7,810
TEXAS	L+	137	363	74	574	1,011	18,812
TEXAS A&M	bBM+	109	181	111	401	691	11,316
TEXAS TECH	BLM+	76	91	78	245	1,086	16,669
TORONTO	BLM+	162	365	125	652	1,186	13,412
TULANE	GLM+	51	99	53	203	328	3,546
UTAH	LM+	75	188	118	381	832	15,178
VANDERBILT	LM+	85	136	70	291	439	4,445
VIRGINIA	LM+	95	199	69	363	1,503	15,108
VIRGINIA TECH	+	37	98	62	197	749	11,381
WASHINGTON	LM+	138	234	130	502	1,680	26,860
WASHINGTON STATE	B+	49	105	47	201	516	9,396
WASHINGTON U-ST. LOUIS	GLM+	95	137	55	287	242	3,684
WATERLOO	+	34	99	27	160	204	4,095
WAYNE STATE	bLM+	89	107	83	279	1,175	19,069
WESTERN ONTARIO	L+	47	139	17	203	147	7,198
WISCONSIN	LM+	151	187	163	501	2,131	25,616
YALE	LM+	212	316	83	611	894	7,314
YORK	BL+	52	123	50	225	663	10,747
BOSTON PUBLIC LIBRARY	+	166	328	200	694	12	1,332
CANADA INST. FOR SCITECH	B+	155	149	N/A	304	N/A	N/A
CENTER FOR RESEARCH LIBS	bL+	25	18	12	55	0	0
LIBRARY OF CONGRESS	L+	1,514	2,814	2	4,330	4,048	*92,717*
LINDA HALL LIBRARY	+	21	40	N/A	61	145	2,784
NATL. AGRICULTURAL LIB.	+	112	71	5	188	237	1,984
NATL. LIBRARY OF CANADA	+	189	237	11	437	194	17,436
NATL. LIBRARY OF MEDICINE	M+	162	90	18	270	295	3,575
NEW YORK PUBLIC LIBRARY	L	259	368	134	761	L/A	L/A
NEW YORK STATE LIBRARY	LM+	67	103	N/A	170	249	1,885
SMITHSONIAN INSTITUTION	bL+	56	56	2	114	N/A	N/A

+ = See Footnotes
L = Includes Law Library
M = Includes Medical Library
B = Includes Branch Campuses
N/A = Not Applicable
L/A = Unavailable
* = Figures in italics are derived from a sampling method rather than an actual annual count

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ARL LIBRARY DATA TABLES 1997-98

PERSONNEL AND PUBLIC SERVICES

Reference Transactions*	Initial Circulation Transactions	Total Circulation Transactions	Total Items Loaned (ILL)	Total Items Borrowed (ILL/DD)	
(34)	(35)	(36)	(37)	(38)	(Survey Question #)
					INSTITUTION
[illegible]	366,462	479,568	12,371	13,858	SASKATCHEWAN
111,670	709,351	819,585	13,800	26,036	SOUTH CAROLINA
162,786	413,903	643,330	12,968	11,745	SOUTHERN CALIFORNIA
124,446	**231,015**	**333,668**	**34,635**	**25,925**	**SOUTHERN ILLINOIS**
114,247	**U/A**	**1,111,611**	**19,971**	**12,455**	**STANFORD**
130,239	**186,473**	**253,060**	**12,942**	**14,612**	**SUNY-ALBANY**
185,750	409,413	492,129	34,976	15,196	SUNY-BUFFALO
62,627	266,092	335,563	25,787	13,603	SUNY-STONY BROOK
U/A	235,284	292,861	14,795	11,823	SYRACUSE
127,478	**200,326**	**251,562**	**9,426**	**9,548**	**TEMPLE**
U/A	**381,183**	**445,060**	**18,998**	**26,797**	**TENNESSEE**
439,336	**1,169,521**	**2,139,663**	**40,891**	**22,220**	**TEXAS**
291,385	1,143,991	1,659,641	55,627	42,702	TEXAS A&M
77,507	275,124	576,235	24,959	41,041	TEXAS TECH
994,556	1,203,985	2,431,237	27,681	8,854	TORONTO
57,867	**240,762**	**357,693**	**15,407**	**10,106**	**TULANE**
391,606	**334,919**	**466,599**	**33,324**	**15,099**	**UTAH**
92,528	**266,423**	**345,503**	**17,408**	**11,174**	**VANDERBILT**
127,098	508,543	1,028,559	41,590	27,423	VIRGINIA
88,392	362,787	454,288	22,831	22,588	VIRGINIA TECH
91,959	U/A	2,890,487	92,529	15,578	WASHINGTON
96,350	**223,194**	**379,153**	**27,289**	**19,124**	**WASHINGTON STATE**
123,062	**281,725**	**412,624**	**29,001**	**21,200**	**WASHINGTON U.-ST. LOUIS**
61,127	**356,563**	**456,028**	**13,429**	**11,172**	**WATERLOO**
988,161	329,115	445,436	50,602	15,265	WAYNE STATE
114,956	U/A	865,836	19,173	4,789	WESTERN ONTARIO
294,148	914,712	1,055,253	100,698	27,521	WISCONSIN
325,216	572,691	741,583	19,922	14,831	YALE
162,746	**722,818**	**1,028,805**	**14,128**	**4,049**	**YORK**
1,300,529	**2,028,355**	**2,393,567**	**37,272**	**2,130**	**BOSTON PUBLIC LIBRARY**
15,674	**U/A**	**13,520**	**509,080**	**11,732**	**CANADA INST. FOR SCITECH.**
N/A	U/A	75,281	29,747	0	CENTER FOR RESEARCH LIBS.
1,457,867	248,041	U/A	23,633	263	LIBRARY OF CONGRESS
42,351	U/A	2,917	76,983	57	LINDA HALL LIBRARY
18,895	**8,892**	**11,099**	**27,514**	**18,377**	**NATL. AGRICULTURAL LIB.**
32,404	**110,842**	**180,322**	**40,535**	**737**	**NATL. LIBRARY OF CANADA**
70,852	**N/A**	**N/A**	**275,588**	**124**	**NATL. LIBRARY OF MEDICINE**
U/A	N/A	N/A	3,177	1,787	NEW YORK PUBLIC LIBRARY
125,047	*65,862*	67,767	65,732	2,622	NEW YORK STATE LIBRARY
82,672	*31,014*	260,361	4,312	1,332	SMITHSONIAN INSTITUTION

U/A - Unavailable N/A - Not Applicable

* Figures in italics are derived from a sampling method rather than an actual annual count.

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ARL Library Data Tables 1997-98

Summary Data: Personnel and Public Services

	Professional Staff (FTE)	Support Staff (FTE)	Student Assistants (FTE)	Total Staff (FTE)	Library Presentations to Groups	Participants in Group Presentations
(Survey Question #)	(28)	(29)	(30)	(31)	(32)	(33)
UNIVERSITY LIBRARIES:						
Median	74	129	65	268	736	9,786
High	431	584	202	1,188	6,882	40,456
Low	23	52	2	112	89	1,167
Totals	9,513	16,927	8,232	34,672	96,358	1,245,570
Number of Libraries Responding	111	111	111	111	106	105
NONUNIVERSITY LIBRARIES:						
Median	155	103	12	270	216	2,384
Totals	2,726	4,274	384	7,384	5,180	121,713
Number of Libraries Responding	11	11	8	11	8	8
GRAND TOTALS:	12,239	21,201	8,616	42,056	101,538	1,367,283

ARL Library Data Tables 1997-98

Summary Data: Personnel and Public Services

Reference Transactions	Initial Circulation Transactions	Total Circulation Transactions	Total Items Loaned (ILL/DD)	Total Items Borrowed (ILL/DD)	
(34)	(35)	(36)	(37)	(38)	(Survey Question #)
					UNIVERSITY LIBRARIES:
147,644	366,873	510,310	27,289	17,827	Median
900,363	1,703,985	3,234,619	237,424	128,487	High
41,414	93,705	179,170	1,304	3,231	Low
19,521,014	38,840,396	75,528,346	3,825,242	2,415,388	Totals
103	88	107	111	111	Number of Libraries Responding
					NONUNIVERSITY LIBRARIES:
70,852	88,405	71,524	37,272	1,332	Median
3,145,094	2,513,111	3,004,834	1,093,573	39,161	Totals
9	6	8	11	11	Number of Libraries Responding
22,666,108	41,353,507	78,533,180	4,918,815	2,454,549	**GRAND TOTALS:**

ANALYSIS OF SELECTED VARIABLES OF ARL UNIVERSITY LIBRARIES 1997-98

The percentages and ratios below are select indicators that describe the condition of ARL university libraries. The high and low figures indicate the range, while the mean and median indicate the central tendency of the distributions for ARL university libraries. Note that a distribution is normal when the mean and the median figures are identical. If the mean is larger than the median then the distribution is positively skewed, and if the opposite is true the distribution is negatively skewed.

	Category	High	Mean	Median	Low	Number of libraries reporting
1.	Professional Staff as percent of Total Staff	43.75	27.25	26.48	15.31	111
2.	Support Staff as percent of Total Staff	74.60	49.11	48.77	17.11	111
3.	Student Assistant Staff as percent of Total Staff	47.70	23.64	23.81	0.90	111
4.	Ratio of Professional to Support Staff (excluding Student Assistant Staff)	2.06	0.59	0.57	0.24	111
5.	Ratio of Items Loaned to Items Borrowed	13.32	1.85	1.52	0.01	111
6.	Serial Expenditures as percent of Total Library Materials Expenditures	82.77	63.09	62.64	35.28	111
7.	Monograph Expenditures as percent of Total Library Materials Expenditures	52.79	26.92	25.59	9.02	111
8.	Total Library Materials Expenditures as percent of Total Library Expenditures	58.71	37.99	38.18	25.52	111
9.	Contract Binding as percent of Total Library Expenditures	2.48	1.20	1.16	0.08	111
10.	Salary and Wages Expenditures as percent of Total Library Expenditures	61.36	46.94	46.26	31.85	111
11.	Other Operating Expenditures as percent of Total Library Expenditures	35.19	13.87	13.54	4.02	111
12.	Unit cost of monographs (per volume)	$80.10	$48.18	$46.71	$25.29	95
13.	Unit cost of serials (per subscription)	$463.30	$252.82	$244.88	$122.98	80
14.	Library Expenditures per Faculty	$42,473	$14,200	$11,895	$5,532	111
15.	Library Expenditures per Student	$4,254	$1,074	$787	$387	111
16.	Library Expenditures per Graduate Student	$15,430	$4,554	$4,226	$1,801	111

PH.D., FACULTY, AND ENROLLMENT STATISTICS 1997-98 *

				ENROLLMENTS			
	Ph.D.s Awarded	Ph.D. Fields	Faculty	Total Full-time**	Total Part-time**	Graduate Full-time	Graduate Part-time
(Survey Question #)	(39)	(40)	(41)	(42)	(43)	(44)	(45)
INSTITUTION							
ALABAMA	113	42	756	15,069	3,255	2,216	1,661
ALBERTA	285	90	1,372	25,842	3,993	2,826	1,645
ARIZONA	411	91	1,448	26,378	7,359	5,264	2,856
ARIZONA STATE	244	41	1,990	34,416	14,827	6,222	5,889
AUBURN	191	47	1,145	18,594	2,911	1,382	1,390
BOSTON	186	51	1,148	23,665	5,722	7,538	2,974
BRIGHAM YOUNG	62	29	1,390	27,246	4,956	1,744	893
BRITISH COLUMBIA	323	75	1,825	25,037	7,711	5,223	400
BROWN	174	33	532	7,187	392	1,535	86
CALIFORNIA, BERKELEY	847	92	1,262	27,637	2,653	7,543	1,129
CALIFORNIA, DAVIS	324	53	1,408	21,944	2,607	5,015	352
CALIFORNIA, IRVINE	219	38	1,003	16,716	1,092	3,420	284
CALIFORNIA, LOS ANGELES	U/A	U/A	1,816	33,638	1,920	11,071	562
CALIFORNIA, RIVERSIDE	123	33	451	9,469	429	1,471	46
CALIFORNIA, SAN DIEGO	310	53	1,099	17,747	910	3,370	147
CALIFORNIA, SANTA BARBARA	271	53	971	17,700	900	2,400	200
CASE WESTERN RESERVE	177	50	1,949	6,821	3,087	3,725	2,574
CHICAGO	367	61	1,173	10,245	1,895	6,468	1,863
CINCINNATI	200	55	1,749	19,924	8,237	4,350	2,835
COLORADO	309	41	2,155	21,751	6,458	2,254	3,790
COLORADO STATE	214	39	990	18,642	2,205	2,396	1,497
COLUMBIA	366	65	2,639	16,457	3,792	10,789	2,132
CONNECTICUT	253	64	1,040	15,387	5,862	3,475	3,392
CORNELL	471	81	1,463	18,378	40	5,123	11
DARTMOUTH	45	13	355	5,146	87	1,214	48
DELAWARE	140	40	930	15,900	5,266	1,745	1,505
DUKE	242	41	870	11,170	411	4,854	360
EMORY	144	22	730	9,883	1,470	3,792	1,245
FLORIDA	456	73	1,562	35,700	6,013	7,322	2,856
FLORIDA STATE	297	131	971	23,436	6,324	3,070	3,005
GEORGE WASHINGTON	90	31	832	12,086	7,270	5,355	6,171
GEORGETOWN	79	19	1,417	11,035	1,497	5,119	1,236
GEORGIA	304	70	1,802	25,641	4,052	4,909	1,548
GEORGIA TECH	263	61	709	11,604	1,365	2,802	643
GUELPH	107	U/A	612	11,956	1,754	1,448	106
HARVARD	428	72	1,785	18,030	6,298	10,961	3,074
HAWAII	153	47	1,088	12,581	4,775	2,526	2,801
HOUSTON	160	43	1,008	19,656	11,946	4,038	3,992
HOWARD	80	26	1,306	8,892	1,319	2,848	814
ILLINOIS, CHICAGO	217	51	1,734	19,275	5,646	5,310	3,313
ILLINOIS, URBANA	672	84	1,775	33,500	4,330	7,483	2,391
INDIANA	323	72	1,576	29,355	5,582	4,779	3,019

* - These figures were reported on the ARL Questionnaire and have not been verified with the U.S. NCES IPEDS survey.

** - Includes both undergraduate and graduate students.

- See Footnotes.

U/A - Unavailable

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PH.D., FACULTY, AND ENROLLMENT STATISTICS 1997-98 *

				ENROLLMENTS			
	Ph.D.s Awarded	Ph.D. Fields	Faculty	Total Full-time**	Total Part-time**	Graduate Full-time	Graduate Part-time
(Survey Question #)	(39)	(40)	(41)	(42)	(43)	(44)	(45)
INSTITUTION							
IOWA	326	61	1,024	21,983	6,426	5,750	3,746
IOWA STATE	300	74	1,526	21,588	3,796	2,785	1,882
JOHNS HOPKINS	328	60	922	7,607	8,070	3,723	7,534
KANSAS	265	67	1,564	21,497	6,070	4,573	4,102
KENT STATE	168	18	834	19,668	10,574	2,115	2,673
KENTUCKY	212	55	1,222	18,570	4,970	3,780	2,752
LAVAL	224	50	1,525	22,398	11,326	4,146	2,344
LOUISIANA STATE	247	54	1,247	23,285	5,401	4,049	1,923
MCGILL	322	80	1,421	21,325	8,044	4,783	1,449
MCMASTER	122	35	886	13,811	3,202	1,453	653
MANITOBA	113	47	1,109	15,864	4,845	1,978	814
MARYLAND	474	70	1,477	32,711	21,224	4,296	3,961
MASSACHUSETTS	254	50	1,154	19,621	5,623	2,325	3,464
MIT	521	48	792	9,521	244	5,220	175
MIAMI	117	43	1,856	11,857	1,565	4,268	763
MICHIGAN	677	89	2,905	33,669	3,326	11,199	1,857
MICHIGAN STATE	461	107	1,988	34,570	8,011	5,637	3,636
MINNESOTA	729	93	1,446	28,200	17,210	6,623	6,445
MISSOURI	262	59	1,574	18,955	3,597	3,107	2,099
NEBRASKA	267	30	1,239	18,429	4,398	2,383	2,198
NEW MEXICO	201	38	854	14,695	9,261	3,263	4,848
NEW YORK	430	125	2,381	24,972	11,712	9,996	9,082
NORTH CAROLINA	381	66	2,421	19,840	4,528	5,465	3,541
NORTH CAROLINA STATE	274	49	1,593	19,570	8,711	1,918	4,165
NORTHWESTERN	349	79	2,114	13,770	3,604	6,035	1,729
NOTRE DAME	118	24	703	10,087	188	2,281	156
OHIO	133	47	949	21,945	5,670	2,522	1,296
OHIO STATE	665	97	2,691	39,058	9,220	8,759	3,872
OKLAHOMA	167	43	834	15,820	4,662	1,915	2,352
OKLAHOMA STATE	125	38	1,343	19,106	7,720	2,072	2,766
OREGON	160	45	633	14,865	2,342	2,739	420
PENNSYLVANIA	423	66	2,110	17,595	4,048	8,111	2,125
PENNSYLVANIA STATE	543	101	3,237	58,829	14,598	5,037	5,392
PITTSBURGH	336	64	1,575	24,475	7,301	5,997	3,284
PRINCETON	263	45	719	6,351	0	1,751	0
PURDUE	492	54	1,640	30,989	4,127	3,909	2,085
QUEEN'S	147	29	709	13,073	3,379	2,010	541
RICE	116	28	452	4,017	92	1,334	61
ROCHESTER	196	44	486	7,055	1,396	2,228	1,140
RUTGERS	434	61	2,030	34,291	14,050	4,487	8,142
SASKATCHEWAN	87	43	967	14,646	2,650	1,295	465
SOUTH CAROLINA	242	58	1,188	17,877	7,570	4,027	4,429

* - These figures were reported on the ARL Questionnaire and have not been verified with the U.S. NCES IPEDS survey.
** - Includes both undergraduate and graduate students.
See Footnotes
U/A - Unavailable

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PH.D., FACULTY, AND ENROLLMENT STATISTICS 1997-98 *

				ENROLLMENTS			
	Ph.D.s Awarded	Ph.D. Fields	Faculty	Total Full-time**	Total Part-time**	Graduate Full-time	Graduate Part-time
(Survey Question #)	(39)	(40)	(41)	(42)	(43)	(44)	(45)
INSTITUTION							
SOUTHERN CALIFORNIA	475	69	1,195	21,859	6,483	7,909	5,003
SOUTHERN ILLINOIS	124	30	941	18,155	3,753	2,353	1,738
STANFORD	884	74	1,534	12,396	3,406	5,963	3,406
SUNY-ALBANY	139	35	548	11,841	4,210	2,040	2,964
SUNY-BUFFALO	283	80	1,231	17,766	5,663	4,591	3,286
SUNY-STONY BROOK	265	41	1,226	14,154	4,493	3,176	3,214
SYRACUSE	166	69	807	13,759	4,628	2,946	3,407
TEMPLE	241	54	1,574	18,083	9,587	4,027	5,593
TENNESSEE	262	45	1,182	20,057	4,982	3,524	2,454
TEXAS	783	85	2,304	43,207	5,650	10,733	1,263
TEXAS A&M	491	84	2,221	38,354	4,217	5,656	1,860
TEXAS TECH	167	51	1,439	22,757	4,043	3,345	1,509
TORONTO	538	77	2,471	38,694	14,146	7,446	2,445
TULANE	128	39	900	5,174	1,435	3,788	513
UTAH	205	62	1,456	17,594	8,599	3,942	966
VANDERBILT	185	40	1,728	9,711	580	3,850	514
VIRGINIA	284	46	1,025	17,954	3,988	5,468	3,228
VIRGINIA TECH	349	49	1,414	24,150	3,058	3,702	2,493
WASHINGTON	479	66	2,954	29,549	5,818	7,846	1,781
WASHINGTON STATE	159	44	1,060	16,787	3,456	2,408	1,145
WASHINGTON U.-ST. LOUIS	212	107	666	9,483	2,123	4,293	1,231
WATERLOO	153	28	679	16,309	4,868	1,520	218
WAYNE STATE	208	50	888	14,967	15,762	6,008	6,942
WESTERN ONTARIO	115	35	1,252	18,335	2,846	2,518	134
WISCONSIN	760	110	1,986	34,288	5,411	8,733	1,971
YALE	343	49	1,792	10,663	396	5,348	276
YORK	93	U/A	1,132	28,856	9,361	2,455	1,612

SUMMARY DATA: PH.D., FACULTY, AND ENROLLMENT STATISTICS

Median	254	51	1,247	18,378	4,493	3,909	1,923
High	884	131	3,237	58,829	21,224	11,199	9,082
Low	45	13	355	4,017	0	1,214	0
Totals	31,802	9,126	150,781	2,193,693	376,331	483,327	254,262
Number of Libraries Responding	110	108	111	111	111	111	111

* - These figures were reported on the ARL Questionnaire and have not been verified with the U.S. NCES IPEDS survey.
** - Includes both undergraduate and graduate students.
See Footnotes
U/A - Unavailable

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RANK ORDER TABLES OF UNIVERSITY LIBRARIES 1997-98

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES 1997-98

The table below presents the rank for each university library in each of the eighteen categories for which rank order tables are prepared. The table numbers in the chart below refer to the data categories listed below. The number of libraries indicates the number of ARL university libraries supplying data in each category.

TABLE	DATA CATEGORY	NO. OF LIBS	TABLE	DATA CATEGORY	NO. OF LIBS
1	VOLUMES IN LIBRARY	111	10	MONOGRAPHS PURCHASED (VOLS.)	95
2	VOLUMES ADDED (GROSS)	111	11	EXPENDITURES FOR MONOGRAPHS	111
3	CURRENT SERIALS (TOTALS)	111	12	SERIALS PURCHASED (SUBS.)	80
4	MICROFORM UNITS	111	13	EXPENDITURES FOR SERIALS	111
5	GOVERNMENT DOCUMENTS	98	14	TOTAL ITEMS LOANED (ILL/DD)	111
6	MATERIALS EXPENDITURES	111	15	TOTAL ITEMS BORROWED (ILL/DD)	111
7	SALARIES & WAGES EXPENDITURES	111	16	PROFESSIONAL STAFF (FTE)	111
8	OTHER OPERATING EXPENDITURES	111	17	SUPPORT STAFF (FTE)	111
9	TOTAL LIBRARY EXPENDITURES	111	18	TOTAL STAFF (FTE)	111

INSTITUTION	TABLES																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
ALABAMA	90	95	73	72	8	102	105	51	99	90	94	65	91	108	99	71	98	94
ALBERTA	18	28	38	63	75	45	50	74	53	53	41	16	52	9	11	67	21	39
ARIZONA	23	34	44	20	75	26	40	29	32	25	25	21	19	45	25	41	36	34
ARIZONA STATE	38	32	22	3	20	27	28	40	29	15	32	20	15	39	36	32	17	29
AUBURN	65	91	66	93	39	89	107	96	104	73	64	77	100	90	101	98	95	108
BOSTON	91	80	37	54	75	73	60	62	65	75	107	33	55	87	54	56	56	47
BRIGHAM YOUNG	68	105	86	95	41	78	56	65	63	41	56	68	98	54	57	26	111	43
BRITISH COLUMBIA	30	48	56	34	16	37	24	57	35	U/A	36	U/A	29	24	34	28	15	23
BROWN	49	82	99	103	U/A	80	61	25	56	51	51	67	84	100	58	47	82	68
CALIFORNIA, BERKELEY	4	10	4	11	60	8	3	13	6	U/A	6	U/A	8	21	35	4	12	3
CALIFORNIA, DAVIS	45	46	17	50	58	50	36	87	48	U/A	38	U/A	61	27	52	77	38	48
CALIFORNIA, IRVINE	95	70	70	88	44	88	45	67	60	76	78	69	94	58	28	86	67	63
CALIFORNIA, LOS ANGELES	7	6	2	13	64	12	4	4	4	1	7	U/A	33	7	75	12	9	4
CALIFORNIA, RIVERSIDE	105	89	103	104	42	104	93	103	103	40	71	78	105	94	55	101	100	103
CALIFORNIA, SAN DIEGO	60	37	53	83	53	55	27	46	40	32	47	42	53	36	22	61	36	41
CALIFORNIA, SANTA BARBARA	66	24	72	64	33	107	63	68	79	44	103	66	103	67	16	105	73	80
CASE WESTERN RESERVE	100	108	98	97	63	90	88	86	91	94	108	57	62	5	7	56	107	101
CHICAGO	11	8	25	88	U/A	30	33	23	28	6	16	U/A	18	44	44	62	24	37
CINCINNATI	63	64	58	77	56	47	51	42	47	45	58	U/A	41	6	3	50	77	50
COLORADO	53	40	45	14	4	35	58	77	50	11	52	46	39	23	59	80	63	69
COLORADO STATE	110	87	61	94	46	87	99	101	100	67	75	71	88	111	1	101	98	95
COLUMBIA	9	4	6	23	54	7	10	30	9	U/A	5	2	5	42	53	6	10	12
CONNECTICUT	50	59	78	45	U/A	56	37	44	45	55	89	38	47	17	14	48	75	60
CORNELL	12	3	7	2	U/A	9	12	19	10	U/A	9	U/A	14	47	50	17	8	10
DARTMOUTH	82	94	62	90	75	70	77	90	76	65	55	25	85	96	68	91	77	97
DELAWARE	75	86	104	79	36	64	79	94	75	42	40	74	87	88	65	81	70	82
DUKE	21	21	27	66	6	13	25	22	23	17	15	U/A	13	8	78	18	33	33
EMORY	69	43	51	65	57	21	41	12	26	19	11	27	50	37	61	40	43	45

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INSTITUTION	TABLES																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
FLORIDA	37	33	46	8	7	19	29	49	30	8	29	22	21	22	45	21	18	21
FLORIDA STATE	81	77	89	31	15	65	86	92	82	81	79	U/A	60	33	62	74	55	64
GEORGE WASHINGTON	107	98	90	91	75	62	67	53	64	47	69	41	70	38	10	63	47	65
GEORGETOWN	73	50	39	58	67	44	44	35	41	37	59	12	38	89	105	51	58	59
GEORGIA	35	36	19	9	14	28	43	50	38	22	31	U/A	28	34	94	44	23	32
GEORGIA TECH	97	69	94	48	75	91	110	89	106	93	87	80	86	104	111	93	110	111
GUELPH	92	111	111	106	75	111	111	82	111	U/A	110	U/A	111	110	82	111	89	110
HARVARD	1	1	1	1	U/A	1	1	1	1	U/A	2	U/A	2	29	17	1	1	1
HAWAII	48	56	43	16	75	105	69	107	97	46	99	28	96	72	93	77	92	77
HOUSTON	102	88	71	53	25	74	100	70	88	66	67	30	93	53	71	68	97	86
HOWARD	72	104	95	59	U/A	76	95	9	58	95	111	44	73	109	110	77	96	96
ILLINOIS, CHICAGO	101	81	88	87	22	77	52	58	61	60	73	43	59	14	4	59	39	54
ILLINOIS, URBANA	3	11	3	30	U/A	22	14	34	18	5	20	U/A	16	10	5	5	11	11
INDIANA	13	12	20	44	75	17	19	45	21	18	18	8	34	15	15	11	20	15
IOWA	29	17	14	10	12	32	35	31	34	16	33	11	48	13	41	39	58	44
IOWA STATE	87	90	55	78	75	48	71	66	62	54	63	52	45	65	81	101	73	85
JOHNS HOPKINS	40	72	59	51	69	24	34	20	27	38	39	35	23	64	43	36	33	39
KANSAS	34	49	30	75	24	49	54	61	54	23	37	31	57	25	33	41	82	51
KENT STATE	70	74	102	111	74	110	64	85	96	92	102	70	110	77	29	59	103	71
KENTUCKY	55	85	35	15	9	51	47	27	43	80	72	26	43	50	30	30	61	31
LAVAL	76	52	105	110	75	82	68	111	81	69	65	72	77	52	86	74	39	76
LOUISIANA STATE	46	53	74	26	61	95	90	75	90	71	84	45	92	93	51	91	80	87
MCGILL	43	57	80	105	17	57	59	104	68	39	43	56	89	92	97	68	41	56
MCMASTER	108	99	107	108	75	106	102	100	108	79	97	76	99	62	88	110	70	106
MANITOBA	109	93	110	109	29	109	84	91	101	U/A	96	U/A	109	70	87	84	45	73
MARYLAND	57	44	42	25	21	53	31	106	52	30	44	49	68	71	63	23	63	38
MASSACHUSETTS	51	73	87	96	43	92	75	88	84	56	85	61	80	84	102	84	92	93
MIT	62	92	69	100	75	93	66	64	72	82	101	73	71	66	85	45	77	80
MIAMI	88	75	64	73	55	54	70	72	66	33	90	37	26	26	67	65	67	78
MICHIGAN	8	15	5	17	75	4	7	15	7	4	4	5	1	12	24	9	6	7
MICHIGAN STATE	26	25	41	24	U/A	52	48	43	46	27	48	50	46	43	46	74	72	54
MINNESOTA	17	14	13	19	1	14	16	7	14	29	28	6	12	1	56	27	26	18
MISSOURI	52	97	52	6	3	75	82	95	80	63	68	U/A	63	28	49	71	53	65
NEBRASKA	67	67	54	43	28	68	89	93	78	77	83	51	51	83	64	86	66	82
NEW MEXICO	84	54	75	7	48	72	30	32	42	50	49	53	83	49	31	68	29	25
NEW YORK	32	19	31	42	34	20	17	17	16	7	14	9	32	57	38	31	16	20
NORTH CAROLINA	20	20	16	41	5	18	22	24	20	9	22	17	30	18	83	15	19	18
NORTH CAROLINA STATE	56	29	26	32	75	40	57	28	44	35	46	18	36	82	76	33	53	42
NORTHWESTERN	28	39	21	67	68	38	32	59	39	U/A	42	U/A	37	35	19	19	51	35
NOTRE DAME	59	61	49	76	U/A	43	65	47	57	34	23	U/A	75	74	91	100	41	70
OHIO	86	62	33	82	75	94	92	78	93	U/A	74	U/A	107	11	6	71	105	90
OHIO STATE	19	23	23	40	59	15	23	54	25	12	19	13	7	3	2	23	30	17

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INSTITUTION	TABLES																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
OKLAHOMA	27	38	79	56	75	63	104	76	89	87	77	35	66	59	13	96	103	100
OKLAHOMA STATE	94	45	76	60	62	96	109	84	105	78	81	U/A	104	80	32	81	109	99
OREGON	77	63	92	102	32	67	80	60	69	49	62	63	79	48	77	81	90	79
PENNSYLVANIA	**22**	**18**	**29**	**74**	**U/A**	**16**	**21**	**3**	**12**	**U/A**	**17**	**U/A**	**10**	**69**	**12**	**20**	**35**	**24**
PENNSYLVANIA STATE	**25**	**13**	**24**	**39**	**73**	**6**	**11**	**11**	**8**	**U/A**	**13**	**14**	**4**	**19**	**18**	**10**	**4**	**8**
PITTSBURGH	**31**	**26**	**47**	**49**	**71**	**36**	**38**	**37**	**37**	**U/A**	**34**	**U/A**	**22**	**30**	**98**	**33**	**32**	**27**
PRINCETON	16	22	28	35	27	11	18	21	15	U/A	12	U/A	25	85	92	16	25	28
PURDUE	79	100	63	99	31	84	73	41	67	89	98	58	54	73	47	66	44	58
QUEEN'S	85	106	108	62	13	100	98	110	107	83	88	64	97	105	104	107	65	98
RICE	**98**	**60**	**97**	**89**	**47**	**46**	**108**	**109**	**98**	**20**	**21**	**59**	**81**	**106**	**107**	**89**	**108**	**109**
ROCHESTER	**47**	**84**	**106**	**46**	**26**	**86**	**85**	**48**	**73**	**59**	**86**	**62**	**74**	**61**	**60**	**51**	**94**	**82**
RUTGERS	**33**	**41**	**34**	**22**	**2**	**33**	**9**	**63**	**19**	**43**	**54**	**U/A**	**24**	**81**	**37**	**23**	**13**	**16**
SASKATCHEWAN	111	79	101	81	40	99	106	102	109	72	93	79	95	103	79	105	69	103
SOUTH CAROLINA	42	58	63	36	18	58	62	36	55	24	60	U/A	58	98	26	51	56	53
SOUTHERN CALIFORNIA	36	35	36	18	30	31	26	6	22	36	57	19	20	101	90	35	46	36
SOUTHERN ILLINOIS	**74**	**101**	**82**	**47**	**35**	**79**	**86**	**97**	**86**	**88**	**104**	**40**	**78**	**41**	**27**	**93**	**88**	**72**
STANFORD	**10**	**5**	**15**	**29**	**66**	**3**	**2**	**2**	**2**	**U/A**	**1**	**U/A**	**3**	**75**	**84**	**3**	**7**	**6**
SUNY-ALBANY	**104**	**96**	**85**	**86**	**75**	**103**	**101**	**79**	**102**	**64**	**92**	**U/A**	**108**	**102**	**74**	**96**	**100**	**105**
SUNY-BUFFALO	41	55	60	27	U/A	69	53	56	59	57	80	32	76	40	70	28	100	60
SUNY-STONY BROOK	96	109	109	57	51	83	87	105	94	84	106	75	82	60	80	101	105	101
SYRACUSE	54	107	84	55	45	101	81	80	95	91	105	U/A	101	95	89	48	58	56
TEMPLE	**71**	**83**	**81**	**85**	**52**	**81**	**78**	**71**	**74**	**62**	**82**	**55**	**65**	**107**	**103**	**58**	**84**	**73**
TENNESSEE	**80**	**68**	**77**	**69**	**70**	**66**	**72**	**81**	**70**	**48**	**70**	**34**	**64**	**79**	**23**	**64**	**49**	**62**
TEXAS	**6**	**9**	**9**	**21**	**75**	**10**	**15**	**14**	**13**	**13**	**8**	**10**	**17**	**32**	**40**	**14**	**3**	**9**
TEXAS A&M	61	31	32	33	65	25	42	26	31	10	24	24	35	16	8	22	30	22
TEXAS TECH	93	76	50	101	72	94	83	73	71	52	61	47	69	63	9	54	91	67
TORONTO	3	2	11	37	U/A	3	3	18	3	2	3	3	6	55	106	7	2	2
TULANE	**89**	**103**	**91**	**92**	**11**	**97**	**94**	**55**	**87**	**68**	**95**	**U/A**	**90**	**91**	**100**	**89**	**85**	**87**
UTAH	**58**	**42**	**83**	**71**	**19**	**41**	**39**	**16**	**36**	**U/A**	**35**	**48**	**42**	**46**	**72**	**55**	**27**	**26**
VANDERBILT	**64**	**51**	**57**	**84**	**50**	**42**	**55**	**52**	**51**	**31**	**45**	**29**	**49**	**86**	**95**	**46**	**51**	**46**
VIRGINIA	24	30	12	28	23	34	20	39	24	21	30	15	31	31	21	37	22	29
VIRGINIA TECH	99	71	68	12	38	60	97	98	85	85	100	60	44	68	39	108	87	92
WASHINGTON	13	16	10	4	75	23	13	33	17	28	26	4	9	4	66	12	14	13
WASHINGTON STATE	**103**	**102**	**40**	**52**	**U/A**	**85**	**76**	**69**	**77**	**74**	**91**	**U/A**	**67**	**56**	**48**	**93**	**80**	**90**
WASHINGTON U.-ST. LOUIS	**39**	**47**	**67**	**80**	**U/A**	**39**	**46**	**8**	**33**	**70**	**53**	**23**	**40**	**51**	**42**	**37**	**49**	**48**
WATERLOO	**106**	**110**	**100**	**107**	**U/A**	**108**	**103**	**99**	**110**	**86**	**109**	**U/A**	**106**	**99**	**96**	**109**	**85**	**107**
WAYNE STATE	44	63	48	70	37	61	49	38	49	61	50	39	72	20	69	43	76	52
WESTERN ONTARIO	78	66	93	68	75	71	91	108	92	58	76	54	56	78	108	98	48	87
WISCONSIN	14	27	18	38	49	29	8	10	11	14	27	7	27	2	20	8	28	14
YALE	**2**	**7**	**8**	**5**	**10**	**2**	**6**	**5**	**3**	**3**	**10**	**1**	**11**	**76**	**73**	**2**	**5**	**5**
YORK	**83**	**78**	**96**	**61**	**75**	**98**	**74**	**83**	**83**	**26**	**66**	**U/A**	**102**	**97**	**109**	**86**	**61**	**73**

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Rank Order Table 1
Volumes in Library

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	13,892,429	56	NORTH CAROLINA STATE	2,713,146
2	YALE	10,108,371	57	MARYLAND	2,699,919
3	ILLINOIS, URBANA	9,171,693	58	UTAH	2,684,321
4	CALIFORNIA, BERKELEY	8,792,009	59	NOTRE DAME	2,644,486
5	TORONTO	8,605,956	60	CALIFORNIA, SAN DIEGO	2,577,641
6	TEXAS	7,648,678	61	TEXAS A&M	2,549,470
7	CALIFORNIA, LOS ANGELES	7,212,229	62	MIT	2,532,175
8	MICHIGAN	7,071,842	63	CINCINNATI	2,524,410
9	COLUMBIA	7,018,408	64	VANDERBILT	2,512,072
10	STANFORD	6,997,003	65	AUBURN	2,504,557
11	CHICAGO	6,271,045	66	CALIFORNIA, SANTA BARBARA	2,503,741
12	CORNELL	6,260,779	67	NEBRASKA	2,501,014
13	INDIANA	6,043,233	68	BRIGHAM YOUNG	2,500,849
14	WISCONSIN	5,902,197	69	EMORY	2,442,504
15	WASHINGTON	5,820,229	70	KENT STATE	2,392,571
16	PRINCETON	5,637,901	71	TEMPLE	2,391,914
17	MINNESOTA	5,613,171	72	HOWARD	2,372,112
18	ALBERTA	5,275,697	73	GEORGETOWN	2,363,799
19	OHIO STATE	5,177,386	74	SOUTHERN ILLINOIS	2,359,797
20	NORTH CAROLINA	4,928,026	75	DELAWARE	2,358,006
21	DUKE	4,764,033	76	LAVAL	2,326,630
22	PENNSYLVANIA	4,672,777	77	OREGON	2,306,007
23	ARIZONA	4,528,588	78	WESTERN ONTARIO	2,292,285
24	VIRGINIA	4,513,843	79	PURDUE	2,280,681
25	PENNSYLVANIA STATE	4,260,519	80	TENNESSEE	2,276,304
26	MICHIGAN STATE	4,188,141	81	FLORIDA STATE	2,263,257
27	OKLAHOMA	4,066,129	82	DARTMOUTH	2,261,911
28	NORTHWESTERN	3,954,204	83	YORK	2,250,952
29	IOWA	3,926,853	84	NEW MEXICO	2,244,315
30	BRITISH COLUMBIA	3,913,833	85	QUEEN'S	2,175,352
31	PITTSBURGH	3,911,168	86	OHIO	2,174,674
32	NEW YORK	3,731,910	87	IOWA STATE	2,167,294
33	RUTGERS	3,703,052	88	MIAMI	2,165,040
34	KANSAS	3,607,522	89	TULANE	2,148,660
35	GEORGIA	3,539,483	90	ALABAMA	2,136,423
36	SOUTHERN CALIFORNIA	3,480,853	91	BOSTON	2,129,423
37	FLORIDA	3,401,279	92	GUELPH	2,125,779
38	ARIZONA STATE	3,372,529	93	TEXAS TECH	2,079,888
39	WASHINGTON U.-ST. LOUIS	3,296,358	94	OKLAHOMA STATE	2,038,952
40	JOHNS HOPKINS	3,275,082	95	CALIFORNIA, IRVINE	2,030,624
41	SUNY-BUFFALO	3,106,748	96	SUNY-STONY BROOK	2,025,373
42	SOUTH CAROLINA	3,067,457	97	GEORGIA TECH	2,022,141
43	MCGILL	3,059,524	98	RICE	2,019,068
44	WAYNE STATE	3,045,681	99	VIRGINIA TECH	2,004,684
45	CALIFORNIA, DAVIS	3,014,440	100	CASE WESTERN RESERVE	1,996,479
46	LOUISIANA STATE	3,006,356	101	ILLINOIS, CHICAGO	1,989,739
47	ROCHESTER	2,992,304	102	HOUSTON	1,986,642
48	HAWAII	2,991,974	103	WASHINGTON STATE	1,963,546
49	BROWN	2,978,970	104	SUNY-ALBANY	1,900,626
50	CONNECTICUT	2,885,664	105	CALIFORNIA, RIVERSIDE	1,896,960
51	MASSACHUSETTS	2,882,541	106	WATERLOO	1,873,863
52	MISSOURI	2,856,649	107	GEORGE WASHINGTON	1,848,636
53	COLORADO	2,789,579	108	MCMASTER	1,823,724
54	SYRACUSE	2,733,382	109	MANITOBA	1,784,395
55	KENTUCKY	2,719,088	110	COLORADO STATE	1,752,704
			111	SASKATCHEWAN	1,736,771

Figure for some institutions includes government documents. See also Rank Order Table 5: Government Documents.

Rank Order Table 2
Volumes Added (Gross)

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	310,016	56	HAWAII	73,882
2	TORONTO	238,027	57	MCGILL	72,993
3	CORNELL	219,195	58	SOUTH CAROLINA	72,653
4	COLUMBIA	218,519	59	CONNECTICUT	71,893
5	STANFORD	212,558	60	RICE	69,096
6	CALIFORNIA, LOS ANGELES	210,975	61	NOTRE DAME	68,452
7	YALE	180,953	62	OHIO	65,863
8	CHICAGO	159,852	63	WAYNE STATE	64,239
9	TEXAS	157,659	64	CINCINNATI	64,237
10	CALIFORNIA, BERKELEY	155,007	65	OREGON	62,385
11	ILLINOIS, URBANA	153,293	66	WESTERN ONTARIO	61,212
12	INDIANA	149,845	67	NEBRASKA	60,527
13	PENNSYLVANIA STATE	148,733	68	TENNESSEE	59,341
14	MINNESOTA	141,753	69	GEORGIA TECH	59,169
15	MICHIGAN	141,359	70	CALIFORNIA, IRVINE	58,761
16	WASHINGTON	138,298	71	VIRGINIA TECH	58,031
17	IOWA	131,943	72	JOHNS HOPKINS	57,311
18	PENNSYLVANIA	131,606	73	MASSACHUSETTS	56,909
19	NEW YORK	127,522	74	KENT STATE	56,811
20	NORTH CAROLINA	125,561	75	MIAMI	56,190
21	DUKE	125,512	76	TEXAS TECH	53,832
22	PRINCETON	125,382	77	FLORIDA STATE	53,631
23	OHIO STATE	115,405	78	YORK	53,497
24	CALIFORNIA, SANTA BARBARA	110,296	79	SASKATCHEWAN	52,923
25	MICHIGAN STATE	108,288	80	BOSTON	52,447
26	PITTSBURGH	108,209	81	ILLINOIS, CHICAGO	52,278
27	WISCONSIN	106,311	82	BROWN	52,232
28	ALBERTA	104,980	83	TEMPLE	51,820
29	NORTH CAROLINA STATE	103,907	84	ROCHESTER	50,936
30	VIRGINIA	103,172	85	KENTUCKY	50,850
31	TEXAS A&M	99,183	86	DELAWARE	50,502
32	ARIZONA STATE	98,570	87	COLORADO STATE	50,449
33	FLORIDA	97,160	88	HOUSTON	48,815
34	ARIZONA	94,185	89	CALIFORNIA, RIVERSIDE	48,732
35	SOUTHERN CALIFORNIA	93,399	90	IOWA STATE	48,314
36	GEORGIA	91,885	91	AUBURN	47,814
37	CALIFORNIA, SAN DIEGO	91,648	92	MIT	47,427
38	OKLAHOMA	91,258	93	MANITOBA	46,918
39	NORTHWESTERN	89,659	94	DARTMOUTH	46,816
40	COLORADO	85,388	95	ALABAMA	46,620
41	RUTGERS	83,009	96	SUNY-ALBANY	46,358
42	UTAH	82,485	97	MISSOURI	45,666
43	EMORY	79,666	98	GEORGE WASHINGTON	44,958
44	MARYLAND	79,208	99	MCMASTER	44,691
45	OKLAHOMA STATE	78,331	100	PURDUE	43,830
46	CALIFORNIA, DAVIS	78,267	101	SOUTHERN ILLINOIS	42,126
47	WASHINGTON U-ST. LOUIS	77,570	102	WASHINGTON STATE	41,662
48	BRITISH COLUMBIA	76,830	103	TULANE	40,723
49	KANSAS	76,583	104	HOWARD	40,331
50	GEORGETOWN	76,214	105	BRIGHAM YOUNG	39,029
			106	QUEEN'S	38,988
51	VANDERBILT	75,672	107	SYRACUSE	37,565
52	LAVAL	75,193	108	CASE WESTERN RESERVE	35,499
53	LOUISIANA STATE	74,682	109	SUNY-STONY BROOK	34,890
54	NEW MEXICO	74,117	110	WATERLOO	34,291
55	SUNY-BUFFALO	73,917	111	GUELPH	29,459

Rank Order Table 3
Current Serials (Totals)

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	105,449	56	BRITISH COLUMBIA	21,888
2	CALIFORNIA, LOS ANGELES	94,748	57	VANDERBILT	21,608
3	ILLINOIS, URBANA	90,801	58	CINCINNATI	21,556
4	CALIFORNIA, BERKELEY	79,125	59	JOHNS HOPKINS	21,337
5	MICHIGAN	69,280	60	SUNY-BUFFALO •	21,262
6	COLUMBIA	66,780	61	COLORADO STATE	21,255
7	CORNELL	61,941	62	DARTMOUTH	20,043
8	YALE	54,933	63	PURDUE	19,025
9	TEXAS	52,515	64	MIAMI	18,987
10	WASHINGTON	50,245	65	SOUTH CAROLINA	18,933
11	TORONTO	49,876	66	AUBURN	18,739
12	VIRGINIA	47,479	67	WASHINGTON U.-ST. LOUIS •	18,626
13	MINNESOTA	46,989	68	VIRGINIA TECH	18,518
14	IOWA	46,786	69	MIT	18,359
15	STANFORD •	44,504	70	CALIFORNIA, IRVINE	18,187
16	NORTH CAROLINA	44,023	71	HOUSTON •	18,103
17	CALIFORNIA, DAVIS	43,334	72	CALIFORNIA, SANTA BARBARA	18,100
18	WISCONSIN	42,518	73	ALABAMA	18,042
19	GEORGIA	42,323	74	LOUISIANA STATE	17,975
20	INDIANA	42,293	75	NEW MEXICO	17,788
21	NORTHWESTERN	40,008	76	OKLAHOMA STATE	17,552
22	ARIZONA STATE	36,621	77	TENNESSEE	17,433
23	OHIO STATE	36,020	78	CONNECTICUT •	17,173
24	PENNSYLVANIA STATE	35,789	79	OKLAHOMA •	16,890
25	CHICAGO	35,693	80	MCGILL	16,787
26	NORTH CAROLINA STATE	35,194	81	TEMPLE	16,755
27	DUKE •	34,872	82	SOUTHERN ILLINOIS •	16,445
28	PRINCETON	34,348	83	UTAH	16,433
29	PENNSYLVANIA	34,276	84	SYRACUSE	16,298
30	KANSAS	33,040	85	SUNY-ALBANY	16,027
31	NEW YORK	29,776	86	BRIGHAM YOUNG	16,029
32	TEXAS A&M	29,671	87	MASSACHUSETTS	15,835
33	OHIO	29,065	88	ILLINOIS, CHICAGO	15,538
34	RUTGERS	28,934	89	FLORIDA STATE •	15,511
35	KENTUCKY	28,535	90	GEORGE WASHINGTON	15,023
36	SOUTHERN CALIFORNIA	28,534	91	TULANE •	14,986
37	BOSTON	28,172	92	OREGON	14,984
38	ALBERTA	27,886	93	WESTERN ONTARIO	14,572
39	GEORGETOWN	27,379	94	GEORGIA TECH	14,407
40	WASHINGTON STATE	27,377	95	HOWARD •	14,368
41	MICHIGAN STATE	27,311	96	YORK	14,359
42	MARYLAND	27,137	97	RICE	14,282
43	HAWAII	26,871	98	CASE WESTERN RESERVE	14,042
44	ARIZONA	25,274	99	BROWN	13,640
45	COLORADO	25,263	100	WATERLOO	13,228
46	FLORIDA	25,213	101	SASKATCHEWAN	13,087
47	PITTSBURGH	24,375	102	KENT STATE	12,953
48	WAYNE STATE	24,200	103	CALIFORNIA, RIVERSIDE	12,565
49	NOTRE DAME •	24,106	104	DELAWARE	12,220
50	TEXAS TECH	23,888	105	LAVAL	11,566
			106	ROCHESTER •	11,254
51	EMORY	23,711	107	MCMASTER	11,232
52	MISSOURI	23,522	108	QUEEN'S •	10,825
53	CALIFORNIA, SAN DIEGO	23,456	109	SUNY-STONY BROOK	10,506
54	NEBRASKA	23,231	110	MANITOBA •	9,249
55	IOWA STATE	22,455	111	GUELPH •	8,156

• - Figure does not include government document serials.

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Rank Order Table 4
Microform Units

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	8,449,472	56	OKLAHOMA	3,716,738
2	CORNELL	7,346,320	57	SUNY-STONY BROOK	3,683,403
3	ARIZONA STATE	6,886,072	58	GEORGETOWN	3,665,068
4	WASHINGTON	6,869,806	59	HOWARD	3,606,759
5	YALE	6,671,642	60	OKLAHOMA STATE	3,601,211
6	MISSOURI	6,460,647	61	YORK	3,600,740
7	NEW MEXICO	6,458,742	62	QUEEN'S	3,585,466
8	FLORIDA	6,340,498	63	ALBERTA	3,583,907
9	GEORGIA	6,189,050	64	CALIFORNIA, SANTA BARBARA	3,579,551
10	IOWA	6,120,233	65	EMORY	3,573,523
11	CALIFORNIA, BERKELEY	6,056,861	66	DUKE	3,499,970
12	VIRGINIA TECH	6,043,349	67	NORTHWESTERN	3,483,125
13	CALIFORNIA, LOS ANGELES	5,933,330	68	WESTERN ONTARIO	3,478,688
14	COLORADO	5,902,528	69	TENNESSEE	3,468,310
15	KENTUCKY	5,872,795	70	WAYNE STATE	3,462,433
16	HAWAII	5,806,442	71	UTAH	3,433,383
17	MICHIGAN	5,751,146	72	ALABAMA	3,419,660
18	SOUTHERN CALIFORNIA	5,665,280	73	MIAMI	3,396,268
19	MINNESOTA	5,582,760	74	PENNSYLVANIA	3,251,543
20	ARIZONA	5,534,510	75	KANSAS	3,203,485
21	TEXAS	5,515,025	76	NOTRE DAME	3,203,292
22	RUTGERS	5,427,289	77	CINCINNATI	3,064,051
23	COLUMBIA	5,303,297	78	IOWA STATE	3,015,078
24	MICHIGAN STATE	5,276,877	79	DELAWARE	2,993,864
25	MARYLAND	5,273,287	80	WASHINGTON U.-ST. LOUIS	2,977,926
26	LOUISIANA STATE	5,126,958	81	SASKATCHEWAN	2,919,799
27	SUNY-BUFFALO	5,066,542	82	OHIO	2,822,987
28	VIRGINIA	5,038,216	83	CALIFORNIA, SAN DIEGO	2,804,039
29	STANFORD	4,975,102	84	VANDERBILT	2,774,290
30	ILLINOIS, URBANA	4,860,207	85	TEMPLE	2,694,297
31	FLORIDA STATE	4,767,120	86	SUNY-ALBANY	2,683,129
32	NORTH CAROLINA STATE	4,752,758	87	ILLINOIS, CHICAGO	2,662,159
33	TEXAS A&M	4,723,229	88	CHICAGO	2,583,308
34	BRITISH COLUMBIA	4,722,482	89	RICE	2,569,170
35	PRINCETON	4,678,893	90	DARTMOUTH	2,502,066
36	SOUTH CAROLINA	4,651,675	91	GEORGE WASHINGTON	2,468,719
37	TORONTO	4,512,454	92	TULANE	2,451,547
38	WISCONSIN	4,500,989	93	AUBURN	2,430,191
39	PENNSYLVANIA STATE	4,494,469	94	COLORADO STATE	2,417,508
40	OHIO STATE	4,410,243	95	BRIGHAM YOUNG	2,414,163
41	NORTH CAROLINA	4,332,233	96	MASSACHUSETTS	2,312,142
42	NEW YORK	4,278,548	97	CASE WESTERN RESERVE	2,289,347
43	NEBRASKA	4,219,236	98	CALIFORNIA, IRVINE	2,284,641
44	INDIANA	4,160,651	99	PURDUE	2,280,092
45	CONNECTICUT	4,157,048	100	MIT	2,225,281
46	ROCHESTER	4,145,264	101	TEXAS TECH	2,072,490
47	SOUTHERN ILLINOIS	4,087,976	102	OREGON	1,911,070
48	GEORGIA TECH	4,021,393	103	BROWN	1,672,205
49	PITTSBURGH	3,863,499	104	CALIFORNIA, RIVERSIDE	1,661,992
50	CALIFORNIA, DAVIS	3,857,058	105	MCGILL	1,535,235
			106	GUELPH	1,520,555
51	JOHNS HOPKINS	3,844,542	107	WATERLOO	1,484,870
52	WASHINGTON STATE	3,839,615	108	MCMASTER	1,446,032
53	HOUSTON	3,819,341	109	MANITOBA	1,331,334
54	BOSTON	3,799,675	110	LAVAL	1,255,679
55	SYRACUSE	3,762,171	111	KENT STATE	1,239,311

RANK ORDER TABLE 5
GOVERNMENT DOCUMENTS

RANK	INSTITUTION	VALUE	RANK	INSTITUTION	VALUE
1	MINNESOTA	2,903,206	56	CINCINNATI	129,929
2	RUTGERS	2,658,985	57	EMORY	127,155
3	MISSOURI	1,758,729	58	CALIFORNIA, DAVIS	119,645
4	COLORADO	1,659,582	59	OHIO STATE	116,128
5	NORTH CAROLINA	1,593,335	60	CALIFORNIA, BERKELEY	106,531
6	DUKE	1,377,009	61	LOUISIANA STATE	80,416
7	FLORIDA	1,244,681	62	OKLAHOMA STATE	80,334
8	ALABAMA	1,158,703	63	CASE WESTERN RESERVE	77,889
9	KENTUCKY	1,148,322	64	CALIFORNIA, LOS ANGELES	69,876
10	YALE	1,093,167	65	TEXAS A&M	65,519
11	TULANE	1,060,717	66	STANFORD	39,063
12	IOWA	1,036,261	67	GEORGETOWN	8,357
13	QUEEN'S	1,018,387	68	NORTHWESTERN	7,600
14	GEORGIA	1,000,661	69	JOHNS HOPKINS	6,279
15	FLORIDA STATE	900,838	70	TENNESSEE	6,062
16	BRITISH COLUMBIA	843,083	71	PITTSBURGH	4,983
17	MCGILL	833,211	72	TEXAS TECH	4,222
18	SOUTH CAROLINA	813,203	73	PENNSYLVANIA STATE	3,175
19	UTAH	797,021	74	KENT STATE	154
20	ARIZONA STATE	762,747	75	ALBERTA	0
21	MARYLAND	753,218	75	ARIZONA	0
22	ILLINOIS, CHICAGO	719,852	75	BOSTON	0
23	VIRGINIA	713,680	75	DARTMOUTH	0
24	KANSAS	688,677	75	GEORGE WASHINGTON	0
25	HOUSTON	664,416	75	GEORGIA TECH	0
26	ROCHESTER	572,784	75	GUELPH	0
27	PRINCETON	561,317	75	HAWAII	0
28	NEBRASKA	547,720	75	INDIANA	0
29	MANITOBA	525,943	75	IOWA STATE	0
30	SOUTHERN CALIFORNIA	487,581	75	LAVAL	0
31	PURDUE	483,986	75	MCMASTER	0
32	OREGON	468,411	75	MICHIGAN	0
33	CALIFORNIA, SANTA BARBARA	458,989	75	MIT	0
34	NEW YORK	434,872	75	NORTH CAROLINA STATE	0
35	SOUTHERN ILLINOIS	430,955	75	OHIO	0
36	DELAWARE	421,301	75	OKLAHOMA	0
37	WAYNE STATE	400,336	75	SUNY-ALBANY	0
38	VIRGINIA TECH	399,525	75	TEXAS	0
39	AUBURN	390,005	75	WASHINGTON	0
40	SASKATCHEWAN	387,530	75	WESTERN ONTARIO	0
41	BRIGHAM YOUNG	382,108	75	YORK	0
42	CALIFORNIA, RIVERSIDE	362,679	97	BROWN	U/A
43	MASSACHUSETTS	315,238	97	CHICAGO	U/A
44	CALIFORNIA, IRVINE	314,260	97	CONNECTICUT	U/A
45	SYRACUSE	311,816	97	CORNELL	U/A
46	COLORADO STATE	302,895	97	HARVARD	U/A
47	RICE	298,732	97	HOWARD	U/A
48	NEW MEXICO	284,382	97	ILLINOIS, URBANA	U/A
49	WISCONSIN	280,259	97	MICHIGAN STATE	U/A
50	VANDERBILT	242,372	97	NOTRE DAME	U/A
			97	PENNSYLVANIA	U/A
51	SUNY-STONY BROOK	229,695	97	SUNY-BUFFALO	U/A
52	TEMPLE	205,446	97	TORONTO	U/A
53	CALIFORNIA, SAN DIEGO	203,712	97	WASHINGTON STATE	U/A
54	COLUMBIA	181,099	97	WASHINGTON U.-ST. LOUIS	U/A
55	MIAMI	143,886	97	WATERLOO	U/A

U/A - Unavailable

Rank Order Table 6
Total Library Materials Expenditures

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	19,346,111	56	CONNECTICUT	5,591,565
2	YALE	16,396,000	57	MCGILL	5,587,968
3	STANFORD	14,564,206	58	SOUTH CAROLINA	5,548,719
4	MICHIGAN	14,258,911	59	TEXAS TECH	5,441,465
5	TORONTO	13,114,346	60	VIRGINIA TECH	5,439,045
6	PENNSYLVANIA STATE	11,697,412	61	WAYNE STATE	5,397,018
7	COLUMBIA	11,441,445	62	GEORGE WASHINGTON	5,355,531
8	CALIFORNIA, BERKELEY	10,940,620	63	OKLAHOMA	5,283,996
9	CORNELL	10,615,658	64	DELAWARE	5,268,458
10	TEXAS	10,307,170	65	FLORIDA STATE	5,225,776
11	PRINCETON	10,183,164	66	TENNESSEE	5,179,318
12	CALIFORNIA, LOS ANGELES	9,606,288	67	OREGON	5,168,061
13	DUKE	9,531,559	68	NEBRASKA	5,151,691
14	MINNESOTA	9,333,452	69	SUNY-BUFFALO	5,094,644
15	OHIO STATE	9,166,910	70	DARTMOUTH	5,062,574
16	PENNSYLVANIA	9,160,556	71	WESTERN ONTARIO	5,062,518
17	INDIANA	9,016,440	72	NEW MEXICO	4,942,529
18	NORTH CAROLINA	8,963,321	73	BOSTON	4,930,455
19	FLORIDA	8,941,049	74	HOUSTON	4,864,116
20	NEW YORK	8,859,560	75	MISSOURI	4,806,620
21	EMORY	8,856,483	76	HOWARD	4,801,554
22	ILLINOIS, URBANA	8,766,170	77	ILLINOIS, CHICAGO	4,797,246
23	WASHINGTON	8,617,903	78	BRIGHAM YOUNG	4,755,057
24	JOHNS HOPKINS	8,594,920	79	SOUTHERN ILLINOIS	4,734,588
25	TEXAS A&M	8,577,570	80	BROWN	4,697,318
26	ARIZONA	8,343,234	81	TEMPLE	4,676,771
27	ARIZONA STATE	8,250,336	82	LAVAL	4,663,873
28	GEORGIA	8,149,818	83	SUNY-STONY BROOK	4,656,180
29	WISCONSIN	8,136,068	84	PURDUE	4,635,650
30	CHICAGO	7,918,951	85	WASHINGTON STATE	4,564,575
31	SOUTHERN CALIFORNIA	7,717,386	86	ROCHESTER	4,531,589
32	IOWA	7,686,253	87	COLORADO STATE	4,528,305
33	RUTGERS	7,653,456	88	CALIFORNIA, IRVINE	4,458,837
34	VIRGINIA	7,612,143	89	AUBURN	4,331,131
35	COLORADO	7,555,744	90	CASE WESTERN RESERVE	4,313,856
36	PITTSBURGH	7,411,328	91	GEORGIA TECH	4,282,688
37	BRITISH COLUMBIA	7,239,062	92	MASSACHUSETTS	4,269,080
38	NORTHWESTERN	7,033,193	93	MIT	4,168,581
39	WASHINGTON U.-ST. LOUIS	6,883,541	94	OHIO	4,152,727
40	NORTH CAROLINA STATE	6,875,182	95	LOUISIANA STATE	4,149,699
41	UTAH	6,828,130	96	OKLAHOMA STATE	4,107,201
42	VANDERBILT	6,309,076	97	TULANE	4,078,206
43	NOTRE DAME	6,291,130	98	YORK	4,062,362
44	GEORGETOWN	6,286,327	99	SASKATCHEWAN	3,762,094
45	ALBERTA	6,172,162	100	QUEEN'S	3,754,926
46	RICE	6,115,613	101	SYRACUSE	3,733,575
47	CINCINNATI	6,067,551	102	ALABAMA	3,726,540
48	IOWA STATE	5,976,594	103	SUNY-ALBANY	3,631,310
49	KANSAS	5,948,806	104	CALIFORNIA, RIVERSIDE	3,617,587
50	CALIFORNIA, DAVIS	5,939,195	105	HAWAII	3,608,408
			106	MCMASTER	3,507,054
51	KENTUCKY	5,893,693	107	CALIFORNIA, SANTA BARBARA	3,316,315
52	MICHIGAN STATE	5,853,308	108	WATERLOO	3,206,464
53	MARYLAND	5,839,425	109	MANITOBA	3,074,923
54	MIAMI	5,795,223	110	KENT STATE	2,904,859
55	CALIFORNIA, SAN DIEGO	5,694,576	111	GUELPH	2,305,086

Rank Order Table 7
Total Salaries & Wages Expenditures

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	38,250,491	56	BRIGHAM YOUNG	7,028,577
2	STANFORD	23,355,129	57	NORTH CAROLINA STATE	6,919,115
3	CALIFORNIA, BERKELEY	19,757,589	58	COLORADO	6,689,214
4	CALIFORNIA, LOS ANGELES	19,404,388	59	MCGILL	6,624,983
5	TORONTO	18,636,008	60	BOSTON	6,596,533
6	YALE	18,393,000	61	BROWN	6,573,551
7	MICHIGAN	15,940,721	62	SOUTH CAROLINA	6,491,899
8	WISCONSIN	15,833,224	63	CALIFORNIA, SANTA BARBARA	6,245,394
9	RUTGERS	15,415,122	64	KENT STATE	6,222,616
10	COLUMBIA	15,368,614	65	NOTRE DAME	6,192,064
11	PENNSYLVANIA STATE	15,211,485	66	MIT	6,156,608
12	CORNELL	14,644,958	67	GEORGE WASHINGTON	6,156,373
13	WASHINGTON	14,597,887	68	LAVAL	6,069,362
14	ILLINOIS, URBANA	14,220,915	69	HAWAII	6,001,875
15	TEXAS	13,787,676	70	MIAMI	5,945,640
16	MINNESOTA	13,257,697	71	IOWA STATE	5,930,304
17	NEW YORK	13,112,078	72	TENNESSEE	5,918,059
18	PRINCETON	12,402,035	73	PURDUE	5,800,953
19	INDIANA	12,342,633	74	YORK	5,670,912
20	VIRGINIA	12,229,514	75	MASSACHUSETTS	5,570,551
21	PENNSYLVANIA	11,837,377	76	WASHINGTON STATE	5,512,079
22	NORTH CAROLINA	11,315,017	77	DARTMOUTH	5,501,043
23	OHIO STATE	10,907,924	78	TEMPLE	5,496,941
24	BRITISH COLUMBIA	10,450,630	79	DELAWARE	5,436,208
25	DUKE	10,219,966	80	OREGON	5,414,204
26	SOUTHERN CALIFORNIA	10,167,302	81	SYRACUSE	5,374,480
27	CALIFORNIA, SAN DIEGO	9,693,205	82	MISSOURI	5,364,910
28	ARIZONA STATE	9,498,147	83	TEXAS TECH	5,345,285
29	FLORIDA	9,402,546	84	MANITOBA	5,324,490
30	NEW MEXICO	9,264,042	85	ROCHESTER	5,320,652
31	MARYLAND	9,212,651	86	SOUTHERN ILLINOIS	5,238,956
32	NORTHWESTERN	9,188,498	87	SUNY-STONY BROOK	5,169,983
33	CHICAGO	9,140,261	88	CASE WESTERN RESERVE	5,100,576
34	JOHNS HOPKINS	9,045,033	89	NEBRASKA	5,005,276
35	IOWA	9,040,479	90	LOUISIANA STATE	4,949,495
36	CALIFORNIA, DAVIS	8,679,309	91	WESTERN ONTARIO	4,944,365
37	CONNECTICUT	8,637,217	92	OHIO	4,930,837
38	PITTSBURGH	8,634,750	93	CALIFORNIA, RIVERSIDE	4,845,130
39	UTAH	8,563,259	94	TULANE	4,772,786
40	ARIZONA	8,550,984	95	HOWARD	4,733,257
41	EMORY	8,487,125	96	FLORIDA STATE	4,597,766
42	TEXAS A&M	8,275,242	97	VIRGINIA TECH	4,595,871
43	GEORGIA	8,164,015	98	QUEEN'S	4,524,702
44	GEORGETOWN	8,074,846	99	COLORADO STATE	4,473,864
45	CALIFORNIA, IRVINE	8,052,673	100	HOUSTON	4,436,793
46	WASHINGTON U.-ST. LOUIS	7,985,723	101	SUNY-ALBANY	4,208,527
47	KENTUCKY	7,961,542	102	MCMASTER	3,972,989
48	MICHIGAN STATE	7,798,300	103	WATERLOO	3,949,208
49	WAYNE STATE	7,631,197	104	OKLAHOMA	3,932,490
50	ALBERTA	7,621,923	105	ALABAMA	3,913,202
51	CINCINNATI	7,604,299	106	SASKATCHEWAN	3,834,757
52	ILLINOIS, CHICAGO	7,459,637	107	AUBURN	3,792,192
53	SUNY-BUFFALO	7,427,172	108	RICE	3,697,639
54	KANSAS	7,301,060	109	OKLAHOMA STATE	3,643,290
55	VANDERBILT	7,299,381	110	GEORGIA TECH	3,474,401
			111	GUELPH	3,444,510

Rank Order Table 8
Other Operating Expenditures

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	17,215,751	56	SUNY-BUFFALO	2,065,949
2	STANFORD	9,023,677	57	BRITISH COLUMBIA	2,054,983
3	PENNSYLVANIA	7,544,145	58	ILLINOIS, CHICAGO	2,053,965
4	CALIFORNIA, LOS ANGELES	7,509,963	59	NORTHWESTERN	2,029,635
5	YALE	6,827,000	60	OREGON	1,949,231
6	SOUTHERN CALIFORNIA	5,844,566	61	KANSAS	1,896,398
7	MINNESOTA	5,398,057	62	BOSTON	1,842,734
8	WASHINGTON U.-ST. LOUIS	5,258,647	63	RUTGERS	1,835,905
9	HOWARD	5,229,215	64	MIT	1,828,445
10	WISCONSIN	4,989,561	65	BRIGHAM YOUNG	1,821,800
11	PENNSYLVANIA STATE	4,697,021	66	IOWA STATE	1,806,662
12	EMORY	4,560,948	67	CALIFORNIA, IRVINE	1,771,166
13	CALIFORNIA, BERKELEY	4,447,223	68	CALIFORNIA, SANTA BARBARA	1,715,824
14	TEXAS	4,419,830	69	WASHINGTON STATE	1,714,289
15	MICHIGAN	4,169,276	70	HOUSTON	1,623,825
16	UTAH	4,113,817	71	TEMPLE	1,619,733
17	NEW YORK	4,104,713	72	MIAMI	1,615,182
18	TORONTO	4,056,920	73	TEXAS TECH	1,588,280
19	CORNELL	4,052,863	74	ALBERTA	1,586,430
20	JOHNS HOPKINS	4,001,586	75	LOUISIANA STATE	1,583,760
21	PRINCETON	3,921,883	76	OKLAHOMA	1,546,695
22	DUKE	3,896,238	77	COLORADO	1,542,608
23	CHICAGO	3,757,486	78	OHIO	1,499,908
24	NORTH CAROLINA	3,699,761	79	SUNY-ALBANY	1,440,290
25	BROWN	3,621,081	80	SYRACUSE	1,417,507
26	TEXAS A&M	3,508,085	81	TENNESSEE	1,322,039
27	KENTUCKY	3,396,796	82	GUELPH	1,292,153
28	NORTH CAROLINA STATE	3,210,288	83	YORK	1,286,029
29	ARIZONA	3,210,188	84	OKLAHOMA STATE	1,278,869
30	COLUMBIA	3,194,047	85	KENT STATE	1,276,163
31	IOWA	3,158,065	86	CASE WESTERN RESERVE	1,252,339
32	NEW MEXICO	3,135,136	87	CALIFORNIA, DAVIS	1,232,026
33	WASHINGTON	3,120,520	88	MASSACHUSETTS	1,192,243
34	ILLINOIS, URBANA	2,995,693	89	GEORGIA TECH	1,179,514
35	GEORGETOWN	2,979,320	90	DARTMOUTH	1,159,993
36	SOUTH CAROLINA	2,973,479	91	MANITOBA	1,154,291
37	PITTSBURGH	2,916,430	92	FLORIDA STATE	1,140,380
38	WAYNE STATE	2,893,304	93	NEBRASKA	1,139,440
39	VIRGINIA	2,810,738	94	DELAWARE	1,130,330
40	ARIZONA STATE	2,809,900	95	MISSOURI	1,101,995
41	PURDUE	2,768,182	96	AUBURN	1,026,476
42	CINCINNATI	2,705,282	97	SOUTHERN ILLINOIS	987,694
43	MICHIGAN STATE	2,646,940	98	VIRGINIA TECH	922,367
44	CONNECTICUT	2,641,738	99	WATERLOO	858,687
45	INDIANA	2,508,297	100	MCMASTER	832,492
46	CALIFORNIA, SAN DIEGO	2,453,723	101	COLORADO STATE	720,370
47	NOTRE DAME	2,405,703	102	SASKATCHEWAN	686,365
48	ROCHESTER	2,223,800	103	CALIFORNIA, RIVERSIDE	684,031
49	FLORIDA	2,221,605	104	MCGILL	678,380
50	GEORGIA	2,215,597	105	SUNY-STONY BROOK	647,748
			106	MARYLAND	638,440
51	ALABAMA	2,199,164	107	HAWAII	617,985
52	VANDERBILT	2,152,493	108	WESTERN ONTARIO	591,278
53	GEORGE WASHINGTON	2,148,307	109	RICE	532,790
54	OHIO STATE	2,136,038	110	QUEEN'S	492,831
55	TULANE	2,079,857	111	LAVAL	467,279

Rank Order Table 9
Total Library Expenditures

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	75,814,280	56	BROWN	15,084,997
2	STANFORD	47,568,884	57	NOTRE DAME	15,032,442
3	YALE	42,109,000	58	HOWARD	14,860,026
4	CALIFORNIA, LOS ANGELES	37,077,594	59	SUNY-BUFFALO	14,732,765
5	TORONTO	36,094,797	60	CALIFORNIA, IRVINE	14,487,141
6	CALIFORNIA, BERKELEY	35,962,762	61	ILLINOIS, CHICAGO	14,446,345
7	MICHIGAN	34,747,186	62	IOWA STATE	13,886,724
8	PENNSYLVANIA STATE	32,119,520	63	BRIGHAM YOUNG	13,834,157
9	COLUMBIA	30,743,348	64	GEORGE WASHINGTON	13,743,095
10	CORNELL	29,516,909	65	BOSTON	13,573,720
11	WISCONSIN	29,186,521	66	MIAMI	13,489,740
12	PENNSYLVANIA	28,838,071	67	PURDUE	13,336,543
13	TEXAS	28,744,448	68	MCGILL	13,103,008
14	MINNESOTA	28,489,796	69	OREGON	12,676,918
15	PRINCETON	27,018,275	70	TENNESSEE	12,549,216
16	NEW YORK	26,703,405	71	TEXAS TECH	12,469,706
17	WASHINGTON	26,605,188	72	MIT	12,371,940
18	ILLINOIS, URBANA	26,206,794	73	ROCHESTER	12,185,856
19	RUTGERS	25,122,306	74	TEMPLE	11,961,824
20	NORTH CAROLINA	24,345,333	75	DELAWARE	11,955,644
21	INDIANA	24,185,658	76	DARTMOUTH	11,925,052
22	SOUTHERN CALIFORNIA	23,974,666	77	WASHINGTON STATE	11,916,822
23	DUKE	23,919,245	78	NEBRASKA	11,486,317
24	VIRGINIA	22,854,406	79	CALIFORNIA, SANTA BARBARA	11,461,583
25	OHIO STATE	22,474,700	80	MISSOURI	11,425,853
26	EMORY	22,089,001	81	LAVAL	11,209,980
27	JOHNS HOPKINS	21,774,961	82	FLORIDA STATE	11,183,790
28	CHICAGO	21,284,860	83	YORK	11,160,395
29	ARIZONA STATE	20,794,434	84	MASSACHUSETTS	11,154,585
30	FLORIDA	20,791,059	85	VIRGINIA TECH	11,113,142
31	TEXAS A&M	20,530,310	86	SOUTHERN ILLINOIS	11,097,444
32	ARIZONA	20,353,655	87	TULANE	11,086,198
33	WASHINGTON U.-ST. LOUIS	20,248,164	88	HOUSTON	11,049,227
34	IOWA	20,095,042	89	OKLAHOMA	10,886,028
35	BRITISH COLUMBIA	19,865,433	90	LOUISIANA STATE	10,813,226
36	UTAH	19,713,669	91	CASE WESTERN RESERVE	10,781,317
37	PITTSBURGH	19,264,332	92	WESTERN ONTARIO	10,734,174
38	GEORGIA	18,825,259	93	OHIO	10,658,273
39	NORTHWESTERN	18,420,379	94	SUNY-STONY BROOK	10,599,668
40	CALIFORNIA, SAN DIEGO	18,166,088	95	SYRACUSE	10,586,245
41	GEORGETOWN	17,563,059	96	KENT STATE	10,503,985
42	NEW MEXICO	17,498,083	97	HAWAII	10,488,805
43	KENTUCKY	17,418,260	98	RICE	10,416,047
44	NORTH CAROLINA STATE	17,210,758	99	ALABAMA	10,019,101
45	CONNECTICUT	17,134,042	100	COLORADO STATE	9,782,499
46	MICHIGAN STATE	16,595,981	101	MANITOBA	9,675,616
47	CINCINNATI	16,522,529	102	SUNY-ALBANY	9,356,792
48	CALIFORNIA, DAVIS	16,111,444	103	CALIFORNIA, RIVERSIDE	9,330,020
49	WAYNE STATE	16,049,894	104	AUBURN	9,266,646
50	COLORADO	16,005,275	105	OKLAHOMA STATE	9,145,786
			106	GEORGIA TECH	9,017,104
51	VANDERBILT	15,945,583	107	QUEEN'S	8,890,007
52	MARYLAND	15,891,946	108	MCMASTER	8,412,818
53	ALBERTA	15,492,145	109	SASKATCHEWAN	8,354,725
54	KANSAS	15,329,371	110	WATERLOO	8,076,487
55	SOUTH CAROLINA	15,231,693	111	GUELPH	7,103,082

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Rank Order Table 10
Monographs Purchased (Volumes)

Rank	Institution	Value	Rank	Institution	Value
1	CALIFORNIA, LOS ANGELES	166,628	56	MASSACHUSETTS	25,187
2	TORONTO	151,540	57	SUNY-BUFFALO	25,164
3	YALE	108,820	58	WESTERN ONTARIO	24,873
4	MICHIGAN	89,541	59	ROCHESTER	24,761
5	ILLINOIS, URBANA	89,484	60	ILLINOIS, CHICAGO	24,143
6	CHICAGO	75,724	61	WAYNE STATE	24,133
7	NEW YORK	74,052	62	TEMPLE	23,985
8	FLORIDA	72,208	63	MISSOURI	23,618
9	NORTH CAROLINA	60,746	64	SUNY-ALBANY	23,603
10	TEXAS A&M	59,064	65	DARTMOUTH	23,201
11	COLORADO	56,510	66	HOUSTON	23,131
12	OHIO STATE	56,432	67	COLORADO STATE	22,149
13	TEXAS	55,859	68	TULANE	21,584
14	WISCONSIN	55,264	69	LAVAL	20,961
15	ARIZONA STATE	54,595	70	WASHINGTON U.-ST. LOUIS	20,873
16	IOWA	53,800	71	LOUISIANA STATE	20,754
17	DUKE	50,711	72	SASKATCHEWAN	20,204
18	INDIANA	48,124	73	AUBURN	20,029
19	EMORY	47,924	74	WASHINGTON STATE	19,990
20	RICE	47,220	75	BOSTON	19,919
21	VIRGINIA	46,338	76	CALIFORNIA, IRVINE	19,881
22	GEORGIA	45,386	77	NEBRASKA	19,805
23	KANSAS	44,152	78	OKLAHOMA STATE	19,624
24	SOUTH CAROLINA	43,968	79	MCMASTER	19,463
25	ARIZONA	43,833	80	KENTUCKY	18,957
26	YORK	41,793	81	FLORIDA STATE	18,677
27	MICHIGAN STATE	41,578	82	MIT	18,554
28	WASHINGTON	38,087	83	QUEEN'S	18,532
29	MINNESOTA	37,981	84	SUNY-STONY BROOK	18,296
30	MARYLAND	37,055	85	VIRGINIA TECH	18,281
31	VANDERBILT	36,844	86	WATERLOO	17,152
32	CALIFORNIA, SAN DIEGO	36,788	87	OKLAHOMA	15,553
33	MIAMI	36,655	88	SOUTHERN ILLINOIS	14,685
34	NOTRE DAME	36,424	89	PURDUE	14,522
35	NORTH CAROLINA STATE	36,337	90	ALABAMA	14,003
36	SOUTHERN CALIFORNIA	35,739	91	SYRACUSE	13,833
37	GEORGETOWN	34,805	92	KENT STATE	13,003
38	JOHNS HOPKINS	33,812	93	GEORGIA TECH	12,393
39	MCGILL	33,152	94	CASE WESTERN RESERVE	11,967
40	CALIFORNIA, RIVERSIDE	32,797	95	HOWARD	10,354
41	BRIGHAM YOUNG	32,516	96	BRITISH COLUMBIA	U/A
42	DELAWARE	32,221	96	CALIFORNIA, BERKELEY	U/A
43	RUTGERS	31,833	96	CALIFORNIA, DAVIS	U/A
44	CALIFORNIA, SANTA BARBARA	31,475	96	COLUMBIA	U/A
45	CINCINNATI	31,465	96	CORNELL	U/A
46	HAWAII	31,293	96	GUELPH	U/A
47	GEORGE WASHINGTON	29,554	96	HARVARD	U/A
48	TENNESSEE	28,976	96	MANITOBA	U/A
49	OREGON	28,764	96	NORTHWESTERN	U/A
50	NEW MEXICO	28,169	96	OHIO	U/A
			96	PENNSYLVANIA	U/A
51	BROWN	27,991	96	PENNSYLVANIA STATE	U/A
52	TEXAS TECH	27,866	96	PITTSBURGH	U/A
53	ALBERTA	27,790	96	PRINCETON	U/A
54	IOWA STATE	27,518	96	STANFORD	U/A
55	CONNECTICUT	26,990	96	UTAH	U/A

U/A - Unavailable

Rank Order Table 11
Expenditures for Monographs

Rank	Institution	Value	Rank	Institution	Value
1	STANFORD	7,688,622	56	BRIGHAM YOUNG	1,470,005
2	HARVARD	7,533,857	57	SOUTHERN CALIFORNIA	1,464,097
3	TORONTO	5,495,046	58	CINCINNATI	1,444,679
4	MICHIGAN	4,936,710	59	GEORGETOWN	1,432,583
5	COLUMBIA	4,823,424	60	SOUTH CAROLINA	1,402,163
6	CALIFORNIA, BERKELEY	4,638,931	61	TEXAS TECH	1,392,271
7	CALIFORNIA, LOS ANGELES	4,229,301	62	OREGON	1,388,785
8	TEXAS	4,094,592	63	IOWA STATE	1,352,084
9	CORNELL	3,697,975	64	AUBURN	1,325,284
10	YALE	3,642,000	65	LAVAL	1,249,231
11	EMORY	3,410,392	66	YORK	1,229,893
12	PRINCETON	3,358,273	67	HOUSTON	1,205,135
13	PENNSYLVANIA STATE	3,343,442	68	MISSOURI	1,201,220
14	NEW YORK	3,283,519	69	GEORGE WASHINGTON	1,189,822
15	DUKE	3,262,426	70	TENNESSEE	1,186,505
16	CHICAGO	2,911,068	71	CALIFORNIA, RIVERSIDE	1,176,367
17	PENNSYLVANIA	2,825,624	72	KENTUCKY	1,170,255
18	INDIANA	2,768,666	73	ILLINOIS, CHICAGO	1,144,156
19	OHIO STATE	2,754,310	74	OHIO	1,132,996
20	ILLINOIS, URBANA	2,592,256	75	COLORADO STATE	1,129,616
21	RICE	2,574,474	76	WESTERN ONTARIO	1,128,277
22	NORTH CAROLINA	2,455,392	77	OKLAHOMA	1,127,891
23	NOTRE DAME	2,423,994	78	CALIFORNIA, IRVINE	1,120,362
24	TEXAS A&M	2,368,676	79	FLORIDA STATE	1,114,572
25	ARIZONA	2,288,445	80	SUNY-BUFFALO	1,102,985
26	WASHINGTON	2,189,299	81	OKLAHOMA STATE	1,074,928
27	WISCONSIN	2,169,261	82	TEMPLE	1,028,755
28	MINNESOTA	2,160,401	83	NEBRASKA	1,023,173
29	FLORIDA	2,159,036	84	LOUISIANA STATE	1,015,927
30	VIRGINIA	2,141,786	85	MASSACHUSETTS	1,014,713
31	GEORGIA	2,100,173	86	ROCHESTER	1,001,061
32	ARIZONA STATE	2,097,175	87	GEORGIA TECH	992,662
33	IOWA	2,049,967	88	QUEEN'S	951,620
34	PITTSBURGH	2,047,163	89	CONNECTICUT	947,177
35	UTAH	2,033,019	90	MIAMI	942,122
36	BRITISH COLUMBIA	2,031,125	91	WASHINGTON STATE	931,887
37	KANSAS	2,013,457	92	SUNY-ALBANY	922,678
38	CALIFORNIA, DAVIS	1,983,685	93	SASKATCHEWAN	868,002
39	JOHNS HOPKINS	1,967,627	94	ALABAMA	858,716
40	DELAWARE	1,966,200	95	TULANE	836,154
41	ALBERTA	1,945,091	96	MANITOBA	825,986
42	NORTHWESTERN	1,902,196	97	MCMASTER	823,732
43	MCGILL	1,831,761	98	PURDUE	821,488
44	MARYLAND	1,804,171	99	HAWAII	821,151
45	VANDERBILT	1,776,137	100	VIRGINIA TECH	812,908
46	NORTH CAROLINA STATE	1,729,430	101	MIT	802,039
47	CALIFORNIA, SAN DIEGO	1,687,993	102	KENT STATE	799,697
48	MICHIGAN STATE	1,633,227	103	CALIFORNIA, SANTA BARBARA	795,915
49	NEW MEXICO	1,614,672	104	SOUTHERN ILLINOIS	764,176
50	WAYNE STATE	1,568,488	105	SYRACUSE	750,151
51	BROWN	1,515,508	106	SUNY-STONY BROOK	739,677
52	COLORADO	1,498,697	107	BOSTON	735,847
53	WASHINGTON U.-ST. LOUIS	1,491,994	108	CASE WESTERN RESERVE	692,451
54	RUTGERS	1,486,764	109	WATERLOO	685,309
55	DARTMOUTH	1,486,108	110	GUELPH	553,356
			111	HOWARD	433,223

Rank Order Table 12
Current Serials Purchased (Subscriptions)

Rank	Institution	Value	Rank	Institution	Value
1	YALE	47,033	56	MCGILL	11,685
2	COLUMBIA	41,034	57	CASE WESTERN RESERVE	11,582
3	TORONTO	39,228	58	PURDUE	11,172
4	WASHINGTON	34,997	59	RICE	11,000
5	MICHIGAN	34,610	60	VIRGINIA TECH	10,849
6	MINNESOTA	32,099	61	MASSACHUSETTS	10,791
7	WISCONSIN	31,569	62	ROCHESTER	10,403
8	INDIANA	28,935	63	OREGON	10,158
9	NEW YORK	28,337	64	QUEEN'S	10,132
10	TEXAS	27,534	65	ALABAMA	10,096
11	IOWA	27,135	66	CALIFORNIA, SANTA BARBARA	9,662
12	GEORGETOWN	27,071	67	BROWN	9,518
13	OHIO STATE	26,319	68	BRIGHAM YOUNG	9,477
14	PENNSYLVANIA STATE	25,526	69	CALIFORNIA, IRVINE	9,473
15	VIRGINIA	24,862	70	KENT STATE	9,424
16	ALBERTA	22,989	71	COLORADO STATE	9,225
17	NORTH CAROLINA	22,974	72	LAVAL	9,139
18	NORTH CAROLINA STATE	22,671	73	MIT	8,886
19	SOUTHERN CALIFORNIA	22,343	74	DELAWARE	8,627
20	ARIZONA STATE	22,119	75	SUNY-STONY BROOK	8,308
21	ARIZONA	21,874	76	MCMASTER	7,493
22	FLORIDA	21,864	77	AUBURN	7,433
23	WASHINGTON U.-ST. LOUIS	18,339	78	CALIFORNIA, RIVERSIDE	7,429
24	TEXAS A&M	17,826	79	SASKATCHEWAN	7,411
25	DARTMOUTH	17,749	80	GEORGIA TECH	6,356
26	KENTUCKY	17,700	81	BRITISH COLUMBIA	U/A
27	EMORY	17,670	81	CALIFORNIA, BERKELEY	U/A
28	HAWAII	17,495	81	CALIFORNIA, DAVIS	U/A
29	VANDERBILT	17,434	81	CALIFORNIA, LOS ANGELES	U/A
30	HOUSTON	17,298	81	CHICAGO	U/A
31	KANSAS	17,104	81	CINCINNATI	U/A
32	SUNY-BUFFALO	16,663	81	CORNELL	U/A
33	BOSTON	16,591	81	DUKE	U/A
34	TENNESSEE	16,316	81	FLORIDA STATE	U/A
35	JOHNS HOPKINS	16,130	81	GEORGIA	U/A
35	OKLAHOMA	16,130	81	GUELPH	U/A
37	MIAMI	15,657	81	HARVARD	U/A
38	CONNECTICUT	15,560	81	ILLINOIS, URBANA	U/A
39	WAYNE STATE	15,100	81	MANITOBA	U/A
40	SOUTHERN ILLINOIS	14,631	81	MISSOURI	U/A
41	GEORGE WASHINGTON	14,434	81	NORTHWESTERN	U/A
42	CALIFORNIA, SAN DIEGO	14,357	81	NOTRE DAME	U/A
43	ILLINOIS, CHICAGO	14,313	81	OHIO	U/A
44	HOWARD	14,201	81	OKLAHOMA STATE	U/A
45	LOUISIANA STATE	13,946	81	PENNSYLVANIA	U/A
46	COLORADO	13,925	81	PITTSBURGH	U/A
47	TEXAS TECH	13,915	81	PRINCETON	U/A
48	UTAH	13,659	81	RUTGERS	U/A
49	MARYLAND	13,226	81	SOUTH CAROLINA	U/A
50	MICHIGAN STATE	12,770	81	STANFORD	U/A
			81	SUNY-ALBANY	U/A
51	NEBRASKA	12,564	81	SYRACUSE	U/A
52	IOWA STATE	12,226	81	TULANE	U/A
53	NEW MEXICO	11,951	81	WASHINGTON STATE	U/A
54	WESTERN ONTARIO	11,925	81	WATERLOO	U/A
55	TEMPLE	11,764	81	YORK	U/A

U/A - Unavailable

Rank Order Table 13
Expenditures for Current Serials

Rank	Institution	Value	Rank	Institution	Value
1	MICHIGAN	8,469,781	56	WESTERN ONTARIO	3,694,504
2	HARVARD	7,582,880	57	KANSAS	3,649,466
3	STANFORD	6,875,584	58	SOUTH CAROLINA	3,626,203
4	PENNSYLVANIA STATE	6,699,409	59	ILLINOIS, CHICAGO	3,621,008
5	COLUMBIA	6,618,021	60	FLORIDA STATE	3,594,761
6	TORONTO	6,414,545	61	CALIFORNIA, DAVIS	3,582,116
7	OHIO STATE	6,412,600	62	CASE WESTERN RESERVE	3,570,387
8	CALIFORNIA, BERKELEY	6,301,639	63	MISSOURI	3,534,076
9	WASHINGTON	6,238,064	64	TENNESSEE	3,507,994
10	PENNSYLVANIA	5,798,143	65	TEMPLE	3,473,843
11	YALE	5,784,000	66	OKLAHOMA	3,472,876
12	MINNESOTA	5,704,157	67	WASHINGTON STATE	3,449,705
13	DUKE	5,663,328	68	MARYLAND	3,432,334
14	CORNELL	5,648,455	69	TEXAS TECH	3,413,131
15	ARIZONA STATE	5,163,226	70	GEORGE WASHINGTON	3,367,807
16	ILLINOIS, URBANA	5,065,542	71	MIT	3,310,387
17	TEXAS	5,047,738	72	WAYNE STATE	3,279,709
18	CHICAGO	4,932,919	73	HOWARD	3,266,666
19	ARIZONA	4,863,754	74	ROCHESTER	3,262,148
20	SOUTHERN CALIFORNIA	4,820,571	75	NOTRE DAME	3,257,679
21	FLORIDA	4,808,816	76	SUNY-BUFFALO	3,225,344
22	PITTSBURGH	4,798,031	77	LAVAL	3,215,273
23	JOHNS HOPKINS	4,719,741	78	SOUTHERN ILLINOIS	3,196,227
24	RUTGERS	4,645,126	79	OREGON	3,172,584
25	PRINCETON	4,622,746	80	MASSACHUSETTS	3,130,311
26	MIAMI	4,591,502	81	RICE	3,086,674
27	WISCONSIN	4,583,804	82	SUNY-STONY BROOK	3,048,582
28	GEORGIA	4,527,976	83	NEW MEXICO	3,012,472
29	BRITISH COLUMBIA	4,522,999	84	BROWN	2,975,251
30	NORTH CAROLINA	4,497,219	85	DARTMOUTH	2,955,559
31	VIRGINIA	4,487,774	86	GEORGIA TECH	2,944,733
32	NEW YORK	4,447,807	87	DELAWARE	2,944,338
33	CALIFORNIA, LOS ANGELES	4,426,244	88	COLORADO STATE	2,903,703
34	INDIANA	4,397,379	89	MCGILL	2,863,379
35	TEXAS A&M	4,311,460	90	TULANE	2,849,377
36	NORTH CAROLINA STATE	4,290,076	91	ALABAMA	2,824,434
37	NORTHWESTERN	4,287,355	92	LOUISIANA STATE	2,817,721
38	GEORGETOWN	4,245,285	93	HOUSTON	2,813,960
39	COLORADO	4,244,657	94	CALIFORNIA, IRVINE	2,790,785
40	WASHINGTON U.-ST. LOUIS	4,236,868	95	SASKATCHEWAN	2,760,552
41	CINCINNATI	4,180,175	96	HAWAII	2,746,397
42	UTAH	4,178,200	97	QUEEN'S	2,743,789
43	KENTUCKY	4,177,739	98	BRIGHAM YOUNG	2,720,524
44	VIRGINIA TECH	4,155,583	99	MCMASTER	2,643,246
45	IOWA STATE	4,122,034	100	AUBURN	2,606,075
46	MICHIGAN STATE	4,116,514	101	SYRACUSE	2,605,431
47	CONNECTICUT	4,086,454	102	YORK	2,544,825
48	IOWA	3,981,157	103	CALIFORNIA, SANTA BARBARA	2,520,400
49	VANDERBILT	3,954,398	104	OKLAHOMA STATE	2,372,919
50	EMORY	3,933,193	105	CALIFORNIA, RIVERSIDE	2,327,806
			106	WATERLOO	2,318,024
51	NEBRASKA	3,912,552	107	OHIO	2,214,476
52	ALBERTA	3,890,005	108	SUNY-ALBANY	2,137,420
53	CALIFORNIA, SAN DIEGO	3,818,832	109	MANITOBA	2,129,080
54	PURDUE	3,814,162	110	KENT STATE	1,989,469
55	BOSTON	3,708,263	111	GUELPH	1,711,505

Rank Order Table 14
Totals Items Loaned (ILL/DD)

Rank	Institution	Value	Rank	Institution	Value
1	MINNESOTA	237,424	56	WASHINGTON STATE	27,289
2	WISCONSIN	100,698	57	NEW YORK	27,223
3	OHIO STATE	97,760	58	CALIFORNIA, IRVINE	26,528
4	WASHINGTON	92,529	59	OKLAHOMA	26,254
5	CASE WESTERN RESERVE	84,844	60	SUNY-STONY BROOK	25,787
6	CINCINNATI	84,454	61	ROCHESTER	25,683
7	CALIFORNIA, LOS ANGELES	72,362	62	MCMASTER	25,121
8	DUKE	68,664	63	TEXAS TECH	24,959
9	ALBERTA	68,189	64	JOHNS HOPKINS	24,878
10	ILLINOIS, URBANA	65,895	65	IOWA STATE	24,679
11	OHIO	65,705	66	MIT	24,672
12	MICHIGAN	61,710	67	CALIFORNIA, SANTA BARBARA	24,516
13	IOWA	58,671	68	VIRGINIA TECH	22,831
14	ILLINOIS, CHICAGO	58,500	69	PENNSYLVANIA	22,781
15	INDIANA	58,391	70	MANITOBA	22,021
16	TEXAS A&M	55,627	71	MARYLAND	21,536
17	CONNECTICUT	53,529	72	HAWAII	21,263
18	NORTH CAROLINA	51,529	73	PURDUE	21,040
19	PENNSYLVANIA STATE	50,663	74	NOTRE DAME	20,343
20	WAYNE STATE	50,602	75	STANFORD	19,971
21	CALIFORNIA, BERKELEY	50,119	76	YALE	19,922
22	FLORIDA	47,102	77	KENT STATE	19,501
23	COLORADO	46,909	78	WESTERN ONTARIO	19,173
24	BRITISH COLUMBIA	45,134	79	TENNESSEE	18,998
25	KANSAS	44,821	80	OKLAHOMA STATE	18,771
26	MIAMI	43,271	81	RUTGERS	18,584
27	CALIFORNIA, DAVIS	42,886	82	NORTH CAROLINA STATE	18,536
28	MISSOURI	42,857	83	NEBRASKA	18,454
29	HARVARD	42,825	84	MASSACHUSETTS	17,933
30	PITTSBURGH	42,278	85	PRINCETON	17,479
31	VIRGINIA	41,590	86	VANDERBILT	17,408
32	TEXAS	40,891	87	BOSTON	17,046
33	FLORIDA STATE	39,702	88	DELAWARE	16,297
34	GEORGIA	38,707	89	GEORGETOWN	15,855
35	NORTHWESTERN	36,119	90	AUBURN	15,410
36	CALIFORNIA, SAN DIEGO	35,939	91	TULANE	15,407
37	EMORY	35,825	92	MCGILL	15,055
38	GEORGE WASHINGTON	35,710	93	LOUISIANA STATE	14,960
39	ARIZONA STATE	35,533	94	CALIFORNIA, RIVERSIDE	14,937
40	SUNY-BUFFALO	34,976	95	SYRACUSE	14,795
41	SOUTHERN ILLINOIS	34,635	96	DARTMOUTH	14,350
42	COLUMBIA	33,844	97	YORK	14,128
43	MICHIGAN STATE	33,721	98	SOUTH CAROLINA	13,800
44	CHICAGO	33,680	99	WATERLOO	13,429
45	ARIZONA	33,535	100	BROWN	13,071
46	UTAH	33,324	101	SOUTHERN CALIFORNIA	12,968
47	CORNELL	31,080	102	SUNY-ALBANY	12,942
48	OREGON	30,686	103	SASKATCHEWAN	12,371
49	NEW MEXICO	29,411	104	GEORGIA TECH	12,049
50	KENTUCKY	29,205	105	QUEEN'S	11,708
			106	RICE	9,968
51	WASHINGTON U.-ST. LOUIS	29,001	107	TEMPLE	9,426
52	LAVAL	28,258	108	ALABAMA	8,938
53	HOUSTON	28,205	109	HOWARD	7,793
54	BRIGHAM YOUNG	28,168	110	GUELPH	7,727
55	TORONTO	27,681	111	COLORADO STATE	1,304

Rank Order Table 15
Totals Items Borrowed (ILL/DD)

Rank	Institution	Value	Rank	Institution	Value
1	COLORADO STATE	128,487	56	MINNESOTA	17,827
2	OHIO STATE	83,762	57	BRIGHAM YOUNG	17,712
3	CINCINNATI	69,505	58	BROWN	17,656
4	ILLINOIS, CHICAGO	65,006	59	COLORADO	17,581
5	ILLINOIS, URBANA	55,418	60	ROCHESTER	17,533
6	OHIO	52,136	61	EMORY	17,341
7	CASE WESTERN RESERVE	45,301	62	FLORIDA STATE	17,126
8	TEXAS A&M	42,702	63	MARYLAND	16,561
9	TEXAS TECH	41,041	64	NEBRASKA	16,345
10	GEORGE WASHINGTON	36,538	65	DELAWARE	15,653
11	ALBERTA	34,113	66	WASHINGTON	15,578
12	PENNSYLVANIA	33,955	67	MIAMI	15,551
13	OKLAHOMA	32,342	68	DARTMOUTH	15,341
14	CONNECTICUT	31,217	69	WAYNE STATE	15,265
15	INDIANA	31,105	70	SUNY-BUFFALO	15,196
16	CALIFORNIA, SANTA BARBARA	29,821	71	HOUSTON	15,176
17	HARVARD	29,618	72	UTAH	15,099
18	PENNSYLVANIA STATE	27,993	73	YALE	14,831
19	NORTHWESTERN	27,610	74	SUNY-ALBANY	14,612
20	WISCONSIN	27,521	75	CALIFORNIA, LOS ANGELES	14,186
21	VIRGINIA	27,423	76	NORTH CAROLINA STATE	14,043
22	CALIFORNIA, SAN DIEGO	27,379	77	OREGON	13,964
23	TENNESSEE	26,797	78	DUKE	13,882
24	MICHIGAN	26,683	79	SASKATCHEWAN	13,858
25	ARIZONA	26,581	80	SUNY-STONY BROOK	13,603
26	SOUTH CAROLINA	26,036	81	IOWA STATE	13,339
27	SOUTHERN ILLINOIS	25,925	82	GUELPH	12,944
28	CALIFORNIA, IRVINE	25,342	83	NORTH CAROLINA	12,908
29	KENT STATE	24,745	84	STANFORD	12,455
30	KENTUCKY	24,661	85	MIT	12,427
31	NEW MEXICO	24,561	86	LAVAL	12,363
32	OKLAHOMA STATE	24,332	87	MANITOBA	12,217
33	KANSAS	24,139	88	MCMASTER	11,954
34	BRITISH COLUMBIA	23,929	89	SYRACUSE	11,823
35	CALIFORNIA, BERKELEY	23,540	90	SOUTHERN CALIFORNIA	11,745
36	ARIZONA STATE	23,323	91	NOTRE DAME	11,476
37	RUTGERS	22,891	92	PRINCETON	11,260
38	NEW YORK	22,884	93	HAWAII	11,248
39	VIRGINIA TECH	22,588	94	GEORGIA	11,202
40	TEXAS	22,220	95	VANDERBILT	11,174
41	IOWA	21,330	96	WATERLOO	11,172
42	WASHINGTON U.-ST. LOUIS	21,200	97	MCGILL	11,096
43	JOHNS HOPKINS	19,611	98	PITTSBURGH	10,587
44	CHICAGO	19,573	99	ALABAMA	10,439
45	FLORIDA	19,571	100	TULANE	10,106
46	MICHIGAN STATE	19,525	101	AUBURN	9,799
47	PURDUE	19,180	102	MASSACHUSETTS	9,612
48	WASHINGTON STATE	19,124	103	TEMPLE	9,548
49	MISSOURI	19,076	104	QUEEN'S	9,264
50	CORNELL	18,882	105	GEORGETOWN	9,087
			106	TORONTO	8,854
51	LOUISIANA STATE	18,799	107	RICE	7,691
52	CALIFORNIA, DAVIS	18,749	108	WESTERN ONTARIO	4,789
53	COLUMBIA	18,316	109	YORK	4,049
54	BOSTON	18,126	110	HOWARD	3,737
55	CALIFORNIA, RIVERSIDE	18,040	111	GEORGIA TECH	3,231

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Rank Order Table 16
Professional Staff (FTE)

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	431	56	BOSTON	74
2	YALE	212	56	CASE WESTERN RESERVE	74
3	STANFORD	197	58	TEMPLE	72
4	CALIFORNIA, BERKELEY	190	59	ILLINOIS, CHICAGO	71
5	ILLINOIS, URBANA	177	59	KENT STATE	71
6	COLUMBIA	168	61	CALIFORNIA, SAN DIEGO	70
7	TORONTO	162	62	CHICAGO	69
8	WISCONSIN	151	63	GEORGE WASHINGTON	68
9	MICHIGAN	145	64	TENNESSEE	67
10	PENNSYLVANIA STATE	142	65	MIAMI	65
11	INDIANA	141	66	PURDUE	63
12	CALIFORNIA, LOS ANGELES	138	67	ALBERTA	61
12	WASHINGTON	138	68	HOUSTON	60
14	TEXAS	137	68	MCGILL	60
15	NORTH CAROLINA	123	68	NEW MEXICO	60
16	PRINCETON	120	71	ALABAMA	58
17	CORNELL	119	71	MISSOURI	58
18	DUKE	118	71	OHIO	58
19	NORTHWESTERN	113	74	FLORIDA STATE	57
20	PENNSYLVANIA	112	74	LAVAL	57
21	FLORIDA	110	74	MICHIGAN STATE	57
22	TEXAS A&M	109	77	CALIFORNIA, DAVIS	56
23	MARYLAND	108	77	HAWAII	56
23	OHIO STATE	108	77	HOWARD	56
23	RUTGERS	108	80	COLORADO	55
26	BRIGHAM YOUNG	107	81	DELAWARE	54
27	MINNESOTA	106	81	OKLAHOMA STATE	54
28	BRITISH COLUMBIA	104	81	OREGON	54
28	SUNY-BUFFALO	104	84	MANITOBA	53
30	KENTUCKY	103	84	MASSACHUSETTS	53
31	NEW YORK	102	86	CALIFORNIA, IRVINE	52
32	ARIZONA STATE	101	86	NEBRASKA	52
33	NORTH CAROLINA STATE	99	86	YORK	52
33	PITTSBURGH	99	89	RICE	51
35	SOUTHERN CALIFORNIA	98	89	TULANE	51
36	JOHNS HOPKINS	97	91	DARTMOUTH	50
37	VIRGINIA	95	91	LOUISIANA STATE	50
37	WASHINGTON U.-ST. LOUIS	95	93	GEORGIA TECH	49
39	IOWA	93	93	SOUTHERN ILLINOIS	49
40	EMORY	92	93	WASHINGTON STATE	49
41	ARIZONA	91	96	OKLAHOMA	48
41	KANSAS	91	96	SUNY-ALBANY	48
43	WAYNE STATE	89	98	AUBURN	47
44	GEORGIA	87	98	WESTERN ONTARIO	47
45	MIT	86	100	NOTRE DAME	46
46	VANDERBILT	85	101	CALIFORNIA, RIVERSIDE	44
47	BROWN	81	101	COLORADO STATE	44
48	CONNECTICUT	80	101	IOWA STATE	44
48	SYRACUSE	80	101	SUNY-STONY BROOK	44
50	CINCINNATI	79	105	CALIFORNIA, SANTA BARBARA	41
			105	SASKATCHEWAN	41
51	GEORGETOWN	78	107	QUEEN'S	40
51	ROCHESTER	78	108	VIRGINIA TECH	37
51	SOUTH CAROLINA	78	109	WATERLOO	34
54	TEXAS TECH	76	110	MCMASTER	33
55	UTAH	75	111	GUELPH	23

Rank Order Table 17
Support Staff (FTE)

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	584	56	BOSTON	129
2	TORONTO	365	56	SOUTH CAROLINA	129
3	TEXAS	363	58	GEORGETOWN	125
4	PENNSYLVANIA STATE	345	58	IOWA	125
5	YALE	316	58	SYRACUSE	125
6	MICHIGAN	304	61	KENTUCKY	123
7	STANFORD	293	61	YORK	123
8	CORNELL	282	63	COLORADO	121
9	CALIFORNIA, LOS ANGELES	277	63	MARYLAND	121
10	COLUMBIA	254	65	QUEEN'S	120
11	ILLINOIS, URBANA	251	66	NEBRASKA	117
12	CALIFORNIA, BERKELEY	249	67	CALIFORNIA, IRVINE	115
13	RUTGERS	240	67	MIAMI	115
14	WASHINGTON	234	69	SASKATCHEWAN	114
15	BRITISH COLUMBIA	228	70	DELAWARE	113
16	NEW YORK	224	70	MCMASTER	113
17	ARIZONA STATE	210	72	MICHIGAN STATE	112
18	FLORIDA	208	73	CALIFORNIA, SANTA BARBARA	111
19	NORTH CAROLINA	207	73	IOWA STATE	111
20	INDIANA	204	75	CONNECTICUT	108
21	ALBERTA	202	76	WAYNE STATE	107
22	VIRGINIA	199	77	CINCINNATI	106
23	GEORGIA	198	77	DARTMOUTH	106
24	CHICAGO	196	77	MIT	106
25	PRINCETON	193	80	LOUISIANA STATE	105
26	MINNESOTA	192	80	WASHINGTON STATE	105
27	UTAH	188	82	BROWN	104
28	WISCONSIN	187	82	KANSAS	104
29	NEW MEXICO	184	84	TEMPLE	102
30	OHIO STATE	181	85	TULANE	99
30	TEXAS A&M	181	85	WATERLOO	99
32	PITTSBURGH	180	87	VIRGINIA TECH	98
33	DUKE	177	88	SOUTHERN ILLINOIS	97
33	JOHNS HOPKINS	177	89	GUELPH	94
35	PENNSYLVANIA	173	90	OREGON	92
36	ARIZONA	170	91	TEXAS TECH	91
36	CALIFORNIA, SAN DIEGO	170	92	HAWAII	87
38	CALIFORNIA, DAVIS	169	92	MASSACHUSETTS	87
39	ILLINOIS, CHICAGO	164	94	ROCHESTER	84
39	LAVAL	164	95	AUBURN	83
41	MCGILL	160	96	HOWARD	82
41	NOTRE DAME	160	97	HOUSTON	81
43	EMORY	158	98	ALABAMA	80
44	PURDUE	149	98	COLORADO STATE	80
45	MANITOBA	146	100	CALIFORNIA, RIVERSIDE	79
46	SOUTHERN CALIFORNIA	142	100	SUNY-ALBANY	79
47	GEORGE WASHINGTON	141	100	SUNY-BUFFALO	79
48	WESTERN ONTARIO	139	103	KENT STATE	78
49	TENNESSEE	137	103	OKLAHOMA	78
49	WASHINGTON U.-ST. LOUIS	137	105	OHIO	76
			105	SUNY-STONY BROOK	76
51	NORTHWESTERN	136	107	CASE WESTERN RESERVE	68
51	VANDERBILT	136	108	RICE	66
53	MISSOURI	135	109	OKLAHOMA STATE	64
53	NORTH CAROLINA STATE	135	110	GEORGIA TECH	59
55	FLORIDA STATE	130	111	BRIGHAM YOUNG	52

Rank Order Table 18
Total Staff (FTE)

Rank	Institution	Value	Rank	Institution	Value
1	HARVARD	1188	56	MCGILL	268
2	TORONTO	652	56	SYRACUSE	268
3	CALIFORNIA, BERKELEY	634	58	PURDUE	264
4	CALIFORNIA, LOS ANGELES	617	59	GEORGETOWN	262
5	YALE	611	60	CONNECTICUT	261
6	STANFORD	601	60	SUNY-BUFFALO	261
7	MICHIGAN	594	62	TENNESSEE	253
8	PENNSYLVANIA STATE	575	63	CALIFORNIA, IRVINE	249
9	TEXAS	574	64	FLORIDA STATE	247
10	CORNELL	562	65	GEORGE WASHINGTON	246
11	ILLINOIS, URBANA	543	65	MISSOURI	246
12	COLUMBIA	516	67	TEXAS TECH	245
13	WASHINGTON	502	68	BROWN	241
14	WISCONSIN	501	69	COLORADO	239
15	INDIANA	499	70	NOTRE DAME	237
16	RUTGERS	457	71	KENT STATE	235
17	OHIO STATE	438	72	SOUTHERN ILLINOIS	229
18	MINNESOTA	431	73	MANITOBA	225
18	NORTH CAROLINA	431	73	TEMPLE	225
20	NEW YORK	418	73	YORK	225
21	FLORIDA	415	76	LAVAL	223
22	TEXAS A&M	401	77	HAWAII	222
23	BRITISH COLUMBIA	394	78	MIAMI	221
24	PENNSYLVANIA	393	79	OREGON	220
25	NEW MEXICO	392	80	CALIFORNIA, SANTA BARBARA	217
26	UTAH	381	80	MIT	217
27	PITTSBURGH	379	82	DELAWARE	214
28	PRINCETON	370	82	NEBRASKA	214
29	ARIZONA STATE	363	82	ROCHESTER	214
29	VIRGINIA	363	85	IOWA STATE	213
31	KENTUCKY	362	86	HOUSTON	204
32	GEORGIA	360	87	LOUISIANA STATE	203
33	DUKE	359	87	TULANE	203
34	ARIZONA	358	87	WESTERN ONTARIO	203
35	NORTHWESTERN	351	90	OHIO	201
36	SOUTHERN CALIFORNIA	339	90	WASHINGTON STATE	201
37	CHICAGO	336	92	VIRGINIA TECH	197
38	MARYLAND	329	93	MASSACHUSETTS	194
39	ALBERTA	316	94	ALABAMA	193
39	JOHNS HOPKINS	316	95	COLORADO STATE	189
41	CALIFORNIA, SAN DIEGO	315	96	HOWARD	188
42	NORTH CAROLINA STATE	310	97	DARTMOUTH	186
43	BRIGHAM YOUNG	304	98	QUEEN'S	184
44	IOWA	298	99	OKLAHOMA STATE	183
45	EMORY	297	100	OKLAHOMA	182
46	VANDERBILT	291	101	CASE WESTERN RESERVE	172
47	BOSTON	289	101	SUNY-STONY BROOK	172
48	CALIFORNIA, DAVIS	287	103	CALIFORNIA, RIVERSIDE	167
48	WASHINGTON U.-ST. LOUIS	287	103	SASKATCHEWAN	167
50	CINCINNATI	285	105	SUNY-ALBANY	164
			106	MCMASTER	163
51	KANSAS	282	107	WATERLOO	160
52	WAYNE STATE	279	108	AUBURN	159
53	SOUTH CAROLINA	277	109	RICE	130
54	ILLINOIS, CHICAGO	273	110	GUELPH	126
54	MICHIGAN STATE	273	111	GEORGIA TECH	112

ARL STATISTICS QUESTIONNAIRE, 1997-98

ARL STATISTICS QUESTIONNAIRE, 1997-98

INSTRUCTIONS FOR COMPLETING THE QUESTIONNAIRE

General Instructions

Please enter your data on the ARL Statistics Website (access via <http://www.arl.org/stats/coordinator.html>) and provide a paper copy to use for data verification.

Definitions of the statistical categories used in this questionnaire can be found in *Library Statistics, ANSI/NISO Z39.7-1995.* (Bethesda, MD: NISO Press, 1997.)

The questionnaire assumes a fiscal year ending June 30, 1998. If your fiscal year is different, please provide a footnote in the "Footnotes" section of the questionnaire.

Please do not use decimals. All figures should be rounded to the nearest whole number.

Please do not leave any lines blank. If an exact figure is unavailable, use **-1**, i.e., "U/A." If the appropriate answer is zero or none, use **0**. For non-university libraries, if a question is not applicable to your library, use **-2**, i.e., "N/A." (Academic libraries should never use -2.)

In a university that includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The U.S. National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS) defines a **branch institution** as "a campus or site of an educational institution that is not temporary, is located in a community beyond a reasonable commuting distance from its parent institution, and offers organized programs of study, not just courses.") If figures for libraries located at branch campuses are reported, please provide an explanation in the "Footnotes" section of the questionnaire.

A **branch library** is defined as an auxiliary library service outlet with quarters separate from the central library of an institution, which has a basic collection of books and other materials, a regular staffing level, and an established schedule. A branch library is administered either by the central library or (as in the case of some law and medical libraries) through the administrative structure of other units within the university. Departmental study/reading rooms are not included.

Specific Instructions

Questions 1-4. Volumes in Library. Use the ANSI/NISO Z39.7-1995 definition for **volume** as follows:

> *a single physical unit of any printed, typewritten, handwritten, mimeographed, or processed work, distinguished from other units by a separate binding, encasement, portfolio, or other clear distinction, which has been cataloged, classified, and made ready for use, and which is typically the unit used to charge circulation transactions.*

Include duplicates and bound volumes of periodicals. For purposes of this questionnaire, unclassified bound serials arranged in alphabetical order are considered classified. Exclude microforms, maps, nonprint materials, and uncataloged items. If any of these items cannot be excluded, please provide an explanatory footnote in the "Footnotes" section of the questionnaire.

Include government document volumes that are accessible through the library's catalogs regardless of whether they are separately shelved. "Classified" includes documents arranged by Superintendent of Documents, CODOC, or similar numbers. "Cataloged" includes documents for which records are provided by the library or downloaded from other sources into the library's card or online catalogs. Documents should, to the extent possible, be counted as they would if they were in bound volumes (e.g., 12 issues of an annual serial would be one or two volumes). Title and piece counts should not be considered the same as volume counts. If a volume count has not been kept, it may be estimated through sampling a representative group of title records and determining

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the corresponding number of volumes, then extrapolating to the rest of the collection. As an alternative, an estimate may be made using the following formulae:

52 documents pieces per foot
10 "traditional" volumes per foot
5.2 documents pieces per volume

If either formulas or sampling are used for deriving your count, please indicate in a footnote.

Question 2. Volumes Added. Include only volumes cataloged, classified, and made ready for use. Include government documents if they have been included in the count of volumes on line 1a. Do not include as part of Volumes Added Gross any government documents or other collections (such as large gift collections) that were added to the collection as the result of a one time download or addition to the OPAC. Include these items in Volumes Held of the previous year (Line 1a) and provide a footnote explaining the revision of Line 1a.

Question 4. Monographic Volumes Purchased. Report number of volumes purchased. Include all volumes for which an expenditure was made during 1997-98, including volumes paid for in advance but not received during the fiscal year. Include monographs in series and continuations. If only number of titles purchased can be reported, please report the data and provide an explanatory footnote in the "Footnotes" section of the questionnaire. **Note:** This question is concerned with volumes purchased rather than volumes received or cataloged. Question 16 requests the expenditure for the volumes counted here.

Questions 5-7. Serials. Report the total number of subscriptions, not titles. Include duplicate subscriptions and, to the extent possible, all government document serials even if housed in a separate documents collection. Verify the inclusion or exclusion of document serials in Question 48 of the questionnaire. Exclude unnumbered monographic and publishers' series. Electronic serials acquired as part of an aggregated package (e.g., Project MUSE, Academic IDEAL) should be counted by title. A **serial** is

> *a publication in any medium issued in successive parts bearing numerical or chronological designations and intended to be continued indefinitely. This definition includes periodicals, newspapers, and annuals (reports, yearbooks, etc.); the journals, memoirs, proceedings, transactions, etc. of societies; and numbered monographic series.*

Question 6. Serials: Not Purchased. If separate counts of nonpurchased and purchased serials are not available, report only the total number of current serials received on line 7, and report **-1**, i.e., "U/A," for lines 5 and 6.

Question 8. Microforms. Report the total number of physical units: reels of microfilm, microcards, and microprint and microfiche sheets. Include all government documents in microform; provide a footnote in the "Footnotes" section of the questionnaire if documents are excluded.

Question 9. Government documents. Report the total number of physical units (pieces) of government documents in paper format that have not been counted elsewhere. Include local, state, national, and international documents; include documents purchased from a commercial source if shelved with separate documents collections and not counted above. Include serials and monographs. To estimate pieces from a measurement of linear feet, use the formula *1 foot = 52 pieces* and indicate in a footnote that the count is based on this estimate. Exclude microforms and nonprint formats such as maps or CD-ROMs. Adjust line 1a, i.e., last year's Volumes Held, and provide a footnote if you are adding records to the OPAC for government documents previously held but not counted as part of Volumes Held (line 1a).

Question 10. Computer files. Include the number of pieces of computer-readable disks, tapes, CD-ROMs, and similar machine-readable files comprising data or programs that are **locally held as part of the library's collections** available to library clients. Examples are U.S. Census data tapes, sample research software, locally-mounted databases, and reference tools on CD-ROM, tape or disk. Exclude bibliographic records used to manage the collection (i.e., the library's own catalog in machine-readable form), library system software, and microcomputer software used only by the library staff.

Question 11. Manuscripts and archives. Include both manuscripts and archives measured in linear feet.

Question 12. Cartographic materials. Include the numbers of pieces of two- and three-dimensional maps and globes. Include satellite and aerial photographs and images.

Question 13. Graphic materials. Include the number of pieces of prints, pictures, photographs, postcards, slides, transparencies, film strips, and the like.

Question 14. Audio materials. Include the number of pieces of audio cassettes, phonodiscs, audio compact discs, reel-to-reel tapes, and other sound recordings.

Question 15. Film and video materials. Include the number of pieces of motion pictures, video cassettes, video laser discs, and similar visual materials.

Questions 16-27. Expenditures. Report all expenditures of funds that come to the library from the regular institutional budget, and from sources such as research grants, special projects, gifts and endowments, and fees for service. (For question 25 include non-library funds; see instruction Q24-25.) Do not report encumbrances of funds that have not yet been expended. **Canadian libraries should report expenditures in Canadian dollars.** (To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.4177, the average monthly noon exchange rate published in the Bank of Canada *Review* for the period July 1997-June 1998.) **Please round figures to the nearest dollar.**

Question 16. Monographs. Report expenditures for volumes counted on line 4.

Question 17. Current Serials. Report expenditures for serials counted on line 5. Exclude unnumbered monographic and publishers' series, and encumbrances.

Question 18. Other library materials. Include expenditures for all materials not reported in Questions 16 and 17, e.g., backfiles of serials, charts and maps, audiovisual materials, manuscripts, etc. If expenditures for these materials are included in lines 16 and/or 17 and cannot be disaggregated, please report **-1**, i.e., ""U/A," and provide a footnote in the "Footnotes" section of the questionnaire. Do not include encumbrances.

Question 19. Miscellaneous expenditures. Include any other **materials funds expenditures** not included in questions 16-18, e.g., expenditures for bibliographic utilities, literature searching, security devices, memberships for the purposes of publications, etc. Please list categories, with amounts, in a footnote in the "Footnotes" section of the questionnaire. **Note:** If your library does not use materials funds for non-materials expenditures—i.e., such expenditures are included in "Other Operating Expenditures"—**report 0, not -1, i.e., "U/A,"** on line 19.

Question 21. Contract Binding. Include only contract expenditures for binding done outside the library. If all binding is done in-house, state this fact and give in-house expenditures in a footnote in the "Footnotes" section of the questionnaire; do not include personnel expenditures. (This figure should also be reported in the 1997-98 ARL Preservation Survey, question 7b.)

Questions 22-25. Salaries and wages. Exclude fringe benefits. If professional and support staff salaries cannot be separated, enter **-1**, i.e., "U/A," on lines 22 and 23 and enter total staff on line 25.

Questions 24-25. Salaries and wages: Student Assistants. Report 100% of student wages regardless of budgetary source of funds. Include federal and local funds for work study students.

Question 26. Other operating expenditures. Exclude expenditures for buildings, maintenance, and fringe benefits.

Questions 28-31. Personnel. Report the number of staff in filled positions, or positions that are only temporarily vacant. ARL defines temporarily vacant positions as positions that were vacated during the fiscal year for which ARL data were submitted, for which there is a firm intent to refill, and for which there are expenditures for salaries reported on lines 22-25.

Include cost recovery positions and staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff. If such staff cannot be included, provide a footnote in the "Footnotes" section of the questionnaire. To compute full-time equivalents of part-time employees and student assistants, take the total number of hours per week (or year) worked by part-time employees in each category and divide it by the number of hours considered by the reporting library to be a full-time work week (or year). **Round figures to the nearest whole numbers.**

Question 28. Professional Staff. Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, for example computer experts, systems analysts, or budget officers.

Question 30. Student Assistants. Report the total FTE (see instruction Q28-31) of student assistants employed on an hourly basis whose wages are paid from funds under library control or from a budget other than the library's, including federal work-study programs. Exclude maintenance and custodial staff.

Questions 32-33. Instruction. Sampling based on a typical week may be used to extrapolate TO A FULL YEAR for Questions 32 and 33. Please indicate if responses are based on sampling.

Question 32. Presentations to Groups. Report the total number of sessions during the year of presentations made as part of formal bibliographic instruction programs and through other planned class presentations, orientation sessions, and tours. If the library sponsors multi-session or credit courses that meet several times over the course of a semester, each session should be counted. Presentations to groups may be for either bibliographic instruction, cultural, recreational, or educational purposes. Presentations both on and off the premises should be included as long as they are sponsored by the library. Do not include meetings sponsored by other groups using library meeting rooms. Please indicate if the figure is based on sampling.

Question 33. Participants in Group Presentations. Report the total number of participants in the presentations reported on line 32. For multi-session classes with a constant enrollment, count each person only once. Personal, one-to-one instruction in the use of sources should be counted as reference transactions on line 34. Please indicate if the figure is based on sampling. Use the "Footnotes" section to describe any special situations.

Question 34. Reference Transactions. Report the total number of reference transactions. A reference transaction is

> *an information contact that involves the knowledge, use, recommendations, interpretation, or instruction in the use of one or more information sources by a member of the library staff. The term includes information and referral service. Information sources include (a) printed and nonprinted material; (b) machine-readable databases (including computer-assisted instruction); (c) the library's own catalogs and other holdings records; (d) other libraries and institutions through communication or referral; and (e) persons both inside and outside the library. When a staff member uses information gained from previous use of information sources to answer a question, the transaction is reported as a reference transaction even if the source is not consulted again.*

If a contact includes both reference and directional services, it should be reported as one reference transaction. Duration should not be an element in determining whether a transaction is a reference transaction. Sampling based on a typical week may be used to extrapolate TO A FULL YEAR for Question 34. Please indicate if the figure is based on sampling.

EXCLUDE SIMPLE DIRECTIONAL QUESTIONS. A directional transaction is an information contact that facilitates the logistical use of the library and that does not involve the knowledge, use, recommendations, interpretation, or instruction in the use of any information sources other than those that describe the library, such as schedules, floor plans, and handbooks.

Questions 35-36. Circulation. For Question 35, count the number of initial circulations during the fiscal year from the general collection for use usually (although not always) outside the library. Do not count renewals.

Include circulations to and from remote storage facilities for library users (i.e., do not include transactions reflecting transfers or stages of technical processing). Count the total number of items lent, not the number of borrowers. For Question 36, report total circulation for the fiscal year including initial transactions reported on line 35 and renewal transactions.

Exclude reserve circulations; these are no longer reported. **NOTE: Based on recommendation from the ARL Statistics and Measurement Committee, the question on reserve circulations was removed this year.**

NOTE: **The following questions have been re-numbered.**

Questions 37-38. Interlibrary Loans. Report the number of requests for material (both returnables and non-returnables) provided to other libraries on line 37 and the number of filled requests for material received from libraries or other providers on line 38. On both lines, include originals, photocopies, and materials sent by telefacsimile or other forms of electronic transmission. Include patron-initiated transactions. Do not include transactions between libraries covered by this questionnaire.

Questions 39-40. Ph.D. Degrees. Report the number awarded during the 1997-98 fiscal year. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) should not be reported in this survey. If you are unable to provide a figure for Ph.D.s only, please add a footnote in the "Footnotes" section of the questionnaire.

Question 40. Ph.D. Fields. For the purposes of this report, Ph.D. fields are defined as the specific discipline specialties enumerated in the U.S. Department of Education's Integrated Postsecondary Education Data System (IPEDS) "Completions" Survey. Although the IPEDS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be footnoted in the "Footnotes" section of the questionnaire.

Question 41. Instructional Faculty. Instructional faculty are defined by the U.S. Dept. of Education as

> *those members of the instruction/research staff who are employed full-time as defined by the institution, including faculty with released time for research and faculty on sabbatical leave.*

Full-time counts generally exclude faculty who are employed to teach fewer than two semesters, three quarters, two trimesters, or two four-month sessions; replacements for faculty on sabbatical leave or leave without pay; faculty for preclinical and clinical medicine; faculty who are donating their services; faculty who are members of military organizations and paid on a different pay scale from civilian employees; academic officers, whose primary duties are administrative; and graduate students who assist in the instruction of courses. Please be sure the number reported, and the basis for counting, are consistent with those for 1996-97 (unless in previous years faculty were counted who should have been excluded according to the above definition). Please footnote any discrepancies.

Questions 42-45. Enrollment. U.S. libraries should use the Fall 1997 enrollment figures reported to the Department of Education on the form entitled "Integrated Postsecondary Education Data System, Fall Enrollment 1997." The line and column numbers on the IPEDS form for each category are noted on the questionnaire. Please check these figures against the enrollment figures reported to ARL last year to ensure consistency and accuracy. **Note:** In the past, the number of part-time students reported was FTE; the number now reported to IPEDS is a head count of part-time students. Canadian libraries should note that the category "graduate students" as reported here includes all post-baccalaureate students.

Question 46: Basis of Volume Count. A physical count is a piece count; a bibliographic count is a catalog record count.

Question 53. Footnotes. Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries (see paragraph six of the "General Instructions" for definition of branch campus libraries). Explanatory footnotes will be included with the published statistics. Please make an effort to word your footnotes in a manner consistent with notes appearing in

the published report, so that the ARL Office can interpret your footnotes correctly. For your convenience, your footnotes from the *ARL Statistics 1996-97* are included in the printed copy of the questionnaire. **Please update these notes, delete them, or indicate that they remain valid, and return them to the ARL office.** Note that the number in parentheses refers to the appropriate column on the Library Data Tables in the published *ARL Statistics*, as well as to the corresponding line number on the questionnaire.

Please return a *printed version* of the completed questionnaire *in addition to the Web version* to the ARL Statistics and Measurement Program by **October 31, 1998.**

Please contact Julia Blixrud at (202) 296-2296 or jblix@arl.org for assistance.

INSTNO _____

ARL STATISTICS QUESTIONNAIRE, 1997-98

Please do not leave any lines blank. If an exact figure is unavailable, use "-1" (that is, "U/A"). If the appropriate answer is zero or none, use "0." For non-university libraries, if a question is not applicable in your library, use "-2" (that is, "N/A"). (Academic libraries should not use –2.)

Reporting Institution _____ Date Returned to ARL _____

Report Prepared by (name) _____

Title _____

Email address _____ Phone number _____

Contact person (if different) _____

Title _____

Email address _____ Phone number _____

COLLECTIONS

Volumes in Library: *(See instruction Q1-4.)*

1a. *Volumes held June 30, 1997.*
(Exclude microforms, uncataloged govt. docs., maps, a/v material.
Record figure reported last year or footnote adjusted figure on p. 4.) _____

2. Volumes added during year -- Gross. *(See instruction Q2.)*
(Exclude microforms, uncataloged govt. docs., maps, a/v material.) _____

2a. *Volumes withdrawn during year.*
(Exclude microforms, uncataloged govt. docs., maps, a/v material.) _____

3. Volumes added during year -- Net. (Subtract line 2a from line 2.) _____

1. Volumes held June 30, 1998. (Add line 1a to line 3.) _____

4. Number of monographic volumes purchased. *(See instruction Q4.)*
(Volumes for which expenditures are reported on line 16. Footnote if titles.) _____

Serials: *(See instruction Q5-7.)*

5. Number of current serials, including periodicals, purchased. _____

6. Number of current serials, including periodicals, received but not purchased (exchanges, gifts, deposits, etc.). *(See instruction Q6.)* _____

7. Total number of current serials received. (Add line 5 to line 6.) _____

COLLECTIONS (cont'd.)

Other Library Materials: Total number of pieces held June 30, 1998:

8. Microform units. *(See instruction Q8.)* _____

9. Government documents not counted elsewhere. *(See instruction Q9.)* _____

10. Computer files. *(See instruction Q10.)* _____

11. Manuscripts and archives (linear ft.). *(See instruction Q11.)* _____

Audiovisual materials:

12. Cartographic. *(See instruction Q12.)* _____

13. Graphic. *(See instruction Q13.)* _____

14. Audio. *(See instruction Q14.)* _____

15. Film and Video. *(See instruction Q15.)* _____

EXPENDITURES *(See instruction Q16-27.)* Reported in Canadian dollars? _____Yes. _____No.

Library Materials:

16. Monographs. (Expenditures for volumes reported on line 4.) *(See instruction Q16.)* _____

17. Current serials including periodicals. *(See instruction Q17.)* _____

18. Other library materials (e.g., microforms, a/v, etc.). *(See instruction Q18.)* _____

19. Miscellaneous. (All materials fund expenditures not included above.) *(See instruction Q19.)* _____

20. Total library materials (Add lines 16, 17, 18, 19.) _____

21. **Contract binding:** *(See instruction Q21; also report figure on ARL 1997-98 Preservation Survey)* _____

Salaries and Wages: *(See instruction Q22-25.)*

22. Professional staff. _____

23. Support staff. _____

24. Student assistants. *(See instruction Q24-25.)* _____

25. Total salaries and wages. (Add lines 22, 23, 24.) _____

26. **Other operating expenditures:** *(See instruction Q26.)* _____

27. **Total library expenditures:** (Add lines 20, 21, 25, 26.) _____

(ARL Statistics Questionnaire 1997-98, page 3.)

PERSONNEL *(See instruction Q28-31. Round figures to nearest whole number.)*

28. Professional staff, FTE. *(See instruction Q28.)* _____

29. Support staff, FTE. _____

30. Student assistants, FTE. *(See instruction Q30.)* _____

31. Total FTE staff. (Add lines 28, 29, 30.) _____

INSTRUCTION *(See instruction Q32-33.)*

32. Number of library presentations to groups *(See instruction Q32.)* _____

Figure based on sampling? _____Yes. _____No.

33. Number of total participants in group presentations reported on line 32. *(See instruction Q33.)* _____

Figure based on sampling? _____Yes. _____No.

REFERENCE

34. Number of reference transactions. *(See instruction Q34.)* _____

Figure based on sampling? _____Yes. _____No.

CIRCULATION *(See instruction Q35-36.)*

35. Number of initial circulations (excluding reserves). _____

36. Total circulations (initial and renewals, excluding reserves). _____

Figure for reserves no longer reported.

The following questions have been re-numbered.

INTERLIBRARY LOANS *(See instruction Q37-38.)*

37. Total number of filled requests for materials **provided** to other libraries. _____

38. Total number of filled requests for materials **received** from other libraries or providers. _____

PH.D. DEGREES *(See instruction Q39-40.)*

39. Number of Ph.D.s awarded in FY1997-98. _____

40. Number of fields in which Ph.D.s can be awarded. *(See instruction Q40.)* _____

FACULTY *(See instruction Q41.)*

41. Number of full-time instructional faculty in FY1997-98. _____

ENROLLMENT -- FALL 1997 (TOTALS) *(See instruction Q42-45; line numbers refer to IPEDS survey form.)*

42. Full-time students, undergraduate and graduate.
(Add line 8, columns 15 & 16, and line 14, columns 15 & 16). _____

43. Part-time students, undergraduate and graduate.
(Add line 22, columns 15 & 16, and line 28, columns 15 & 16). _____

44. Full-time graduate students. (Line 14, columns 15 & 16.) _____

45. Part-time graduate students. (Line 28, columns 15 & 16.) _____

LOCAL CHARACTERISTICS or **ATTRIBUTES**

46. Basis of volume count is: _____ Physical. _____ Bibliographic. *(See instruction Q46.)*

47. Government documents are included in count of Current Serials. _____ Yes. _____ No.

48. Fringe benefits are included in expenditures for salaries and wages. _____ Yes. _____ No.

49. Law Library statistics are included. _____ Yes. _____ No. _____ We do not have a Law Library.

50. Medical Library statistics are included. _____ Yes. _____ No. _____ We do not have a Medical Library.

51. Other main campus libraries included: [list in "Footnotes" below].

52. Branch Campus Libraries. *(See paragraph six of the General Instructions.)*

Figures include branch CAMPUS libraries: ____ Yes. _____ No. _____ We have only one campus.

If branch campus libraries are included, please specify which campuses in "Footnotes" below.

If branch campus libraries are not included, please specify which campuses in "Footnotes" below.

FOOTNOTES *(See instruction Q53.)*

53. Footnotes as published in the *ARL Statistics 1996-97*.

For your convenience, a copy of your library's footnotes as they appear in the published *ARL Statistics 1996-97* is attached. Please indicate revisions, additions, and deletions as appropriate. If any footnotes published last year are unchanged, please mark them to indicate that they are still valid.

Please return a *printed version* of the completed questionnaire *in addition to the Web version* to the ARL Statistics and Measurement Program by **October 31, 1998.**

Please contact Julia Blixrud at (202) 296-2296 or jblix@arl.org for assistance.

FOOTNOTES TO THE ARL STATISTICS, 1997-98

FOOTNOTES TO THE ARL STATISTICS, 1997-98

Footnotes may also include errata and corrections to data from prior years not previously reported. Numbers in parentheses refer to columns in Library Data Tables and to Questionnaire numbers.

INSTITUTION	QUESTION NUMBER	NOTES
ALABAMA		All figures are as of September 30, 1998.
	1	Includes Government documents, beginning in 1996; pre-1996 documents are not included in the catalog.
	4	Does not include figure for Law Library; Law Library unable to separate monographs purchased from total number of volumes added.
	6-7	Includes revised estimate of Government documents serials titles.
	8	Includes Government documents in microformats.
	10	Decrease reflects revised method of counting by Law Library.
	15	Decrease reflects titles withdrawn in one of the libraries.
	18	Includes Map library only; the other libraries do not separate expenditures for Audiovisual materials and Microforms.
	19	Includes Center for Research Libraries membership.
	22	Drop from previous year due to unusual number of vacancies.
	26	Includes bibliographic utilities, memberships (except CRL), and literature searching; also includes replacement of integrated library system.
ALBERTA		All figures are as of March 31, 1998.
		Includes East Campus.
	6	Includes Government documents.
	9	Government documents are included in question 8.
	16-27	Expenditures reported in Canadian dollars: (16) $2,757,556; (17) $5,514,860; (18) $0.00; (19) $477,858; (20) $8,750,274; (21) $158,258; (22) $3,624,100; (23) $6,397,100; (24) $584,400; (25) $10,805,600; (26) $2,249,082; (27) $21,963,214.
	18	Included in Monograph expenditures (16) and Serial expenditures (17).
	19	Includes GST (Goods and Services Tax), postage, courier, and supplies expenditures, as well as membership expenditures not already paid through the materials budget.
	23	Decrease reflects a one-time 1996-97 project.
	32-33	Figures reported for the first time this year.
	36	Total circulation includes reserves.
	41	Number of Ph.D. fields varies considerably from year to year.

INSTITUTION	QUESTION NUMBER	NOTES
ALBERTA (cont.)	43	Previously reported figure reflected only the number of part-time undergraduate students and did not count part-time graduate students. 1996-97 figure revised to 3,728.
ARIZONA		Basis of volume count for Law Library is physical; for main and Health Sciences libraries is bibliographic.
	5-6	Law Library cannot supply disaggregated data, reports only total.
	32-34	Excludes Law Library.
ARIZONA STATE		Includes ASU West; Architectural and Environmental Design Library, Hayden Library, Music Library, Noble Science and Engineering Library, and the Law Library.
	4	Includes numbered and unnumbered monographic series.
	5	Includes numbered ACS, IOP, and Project Muse e-journal titles (98), not included last year.
	6	Includes AIP, LINK e-journal titles (278), not included last year.
	10	Increase in patents CDs and withdrawal of former stand-alones.
	16	Includes expenditure for numbered and unnumbered monographic series.
	17	Does not include expenditures for numbered monographic series reported in question 16. Increase due to a 569% increase in items purchased by ASU East.
	18	Includes three staff-use-only databases, monograph microforms, maps, non-print, serial backfile, monograph electronic, and audio visual materials.
	19	Includes Law Library databases: (LEXIS, WESTLAW, OCLC, CALI, Legaltrac, CIS Congressional Universe), ASU East document delivery subsidy in lieu of purchase, Memberships, ILL expenditures from materials budget, Marcive, and ASU West search services.
AUBURN		All figures are as of September 30, 1998.
		Some figures adjusted due to new library system as of January 1, 1998.
	2-4	Budget reallocation from monographs to serials.
	18-19	Includes some costs for new library system. Previous year's figures incorrectly reported.
	24	Includes $30,739 from Federal Work-Study Program.
	37	No Interlibrary loan for several months while implementing new online system.
	40, 41	Declining-graduate enrollment due to decreased financial support.
BOSTON	7	Some libraries unable to disaggregate purchased books and books received.
	19	Includes prepayment to bibliographic utility.
	22	Includes three year retroactive payment for labor agreement settlement.
	26	Includes $399,148 in special collections monies.

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INSTITUTION	QUESTION NUMBER	NOTES
BOSTON (cont.)	28	Increased positions filled and system-wide personnel upgrades.
	33	Includes Medical campus for the first time.
	41	Does not include Medical campus.
BOSTON PUBLIC	4	Increase due to a special one-time purchase order of 40,000 children's books.
	30	Increase due to additional funding that allowed for the hiring of more student assistants.
BRIGHAM YOUNG		All figures are as of August 31, 1998.
	1-3, 5-8	Includes Government documents.
	18	Electronic resources are compiled in a separate budget account and reported on this line.
	19	Includes shipping and freight ($34,065); searching ($17,442); and copyright clearance ($936).
	34	Figure based on sampling.
	42	1996-97 figure corrected to 26,520.
BRITISH COLUMBIA		All figures are as of March 31, 1998, except where noted.
		Medical and Law Library statistics cannot be disaggregated from the main statistics.
	2, 3	Figures reflect implementation of a new system.
	7, 10	Decrease reflects revised system-wide count.
	14	Decrease reflects revised base figures for one library.
	16-27	Expenditures reported in Canadian dollars: (16) $2,879,526; (17) $6,412,255; (18) included in 16; (19) $971,037; Expenditures disaggregated: Internet Access ($700,000); Electronic Services ($128,618); Electronic Document Delivery ($142,419); (20) $10,262,818; (21) $171,200; (22) $5,727,219; (23) $7,383,536; (24) $1,705,103; (25) $14,815,858; (26) $2,913,349; (27) $28,163,225.
	26	Decrease reflects purchase of a new system in 1996-97.
	31	Includes operating budget 369.55 FTE; cost recovery 12.64 FTE; grant/other 9.3 FTE; Project 2.02 FTE; for total of 393.51 FTE.
	36	Includes reserve circulation.
	39	Figures are for calendar year 1997.
BROWN		Includes John Carter Brown Library, Rockefeller (Social Sciences & Humanities), Sciences; John Hay (Special Collections) and the Art Slide Library, Demography Library, Orwig Music Library, and Media Services Branch Libraries.
		Medical Library statistics cannot be disaggregated from the main statistics because the Medical collection is an integral part of the Sciences Library.
	2	1996-97 figure included a large gift collection.
	11	Includes Manuscripts only.

INSTITUTION	QUESTION NUMBER	NOTES
CALIFORNIA, BERKELEY		Volumes held as of June 30, 1997 revised to 8,643,237.
	8-11	Government documents are reported by material type when known, and otherwise as generic "government documents."
	16	Includes dollars spent on all library materials except serials.
	30	An error in calculation was corrected from previous years.
	31	FTE figures include temporary employees, and reflect temporary reductions in hours due to voluntary action by career employees.
	35-36	Patron self-renewal not counted, and not included.
	38	Does not include photocopies provided by authorized document delivery subcontractors (e.g., Boalt Express).
	40	In January 1998, a new analysis by the Vice Chancellor's Office of Resource Planning and Budget revealed that the number of Ph.D. programs is lower than previously reported.
	40-41	Numbers reflect some professional doctoral degrees in addition to Ph.D.
CALIFORNIA, DAVIS		Includes Harrison Western Research Center Library (20,829 bound volumes and 107 non-document serials) in Fair Oaks, California.
		Basis of volume count in General library is bibliographic; in Law Library it is physical.
	19	Includes for Law Library: RLIN, $17,827; LEXIS and WESTLAW, $49,908.
CALIFORNIA, IRVINE	18	Figure includes expenditures not accounted for in the other categories. For the last several years this includes the amount spent in pre-paying serial subscriptions. In 1997/98 the library benefited from a stronger dollar, some significant credits, and extra one-time funds.
	19	Figure represents prepayments. A significant number of media purchases were made, as well as, some additional microform purchases this fiscal year.
	23, 25, 27	After the *1997-98 ARL Statistics* publication was in production, an error was detected in the reported figure for Salaries and Wages for Support Staff (question 23). This correction further effected the calculation of Total Salaries and Wages (question 25) and Total Library Expenditures (question 27). The correct figures are: (23) $3,652,254; (25) $8,079,673; and (27) $14,514,141.
	38	During 1996/97 the number of requests, and consequently the number of filled requests received, increased due to a three month closing of the Main Library for a seismic retrofit and renovation project. In 1997/98 the number of requests decreased due to the reopening of the Main Library.
CALIFORNIA, LOS ANGELES		Volumes held June 30, 1997 revised to 7,012,226 due to a revision in the volume count submitted by the Biomedical Library.
	18	Includes a large payment for multi-year access to an electronic database.
	35-36, 39-40	Figures unavailable due to a system changeover underway.
CALIFORNIA, RIVERSIDE	19	Includes: ILL $13,795.35; Preservation $9,669.76.

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INSTITUTION	QUESTION NUMBER	NOTES
CALIFORNIA, SAN DIEGO		Includes: Biomedical Library, Medical Center Library, Social Sciences and Humanities library, Science and Engineering Library, Scripps Institution of Oceanography Library, the International Relations and Pacific Studies Library, the Undergraduate Library, Music Library, Art and Architecture Library, and the Mandeville Special Collections Library.
	3	Decrease in net volumes added reflects the withdrawal of over 30,000 volumes from the undergraduate library collection due to a general downsizing of collections while the library is being renovated.
	5	Includes 687 serial titles with Internet access.
	6	Includes 1,802 serial titles with Internet access.
	17	Includes monographic and publishers' series. Also includes all formats.
	19	Expenditures for database services (literature searches).
	31	Includes 14.55 FTE hired for cost recovery operations, special projects, and grants.
	43, 45	Number of part-time students admitted increased due to campus decision.
CALIFORNIA, SANTA BARBARA	27	Prepayments to book vendors in previous year reduced expenditures for 1997-98.
	35-36	Figures not reported due to a system failure.
CANADA INST. FOR SCITECH.		Volumes held June 30, 1997 revised to $7,959,314.
		Figures include virtual library branches with small branch collections.
		Ten libraries with collections cancelled subscriptions totaling $1 million.
	16-27	Expenditures reported in Canadian dollars: (16) $520,841; (17) $7,117,505; (18) N/A; (19) $50,138; (20) $7,668,483; (21) N/A; (22) U/A; (23) U/A; (24) U/A (25) $12,710,102; (26) $13,860,849; (27) $34,239,434.
	22-25	Includes fringe benefits.
	34	Includes branch libraries. Previous year included Main library only.
CASE WESTERN RESERVE	18	For the Medical Library this expenditure is for electronic resources.
	26	Includes purchases of software site license by the Main Library.
	29	Includes 1 full-time temporary person in the Main Library for 1/2 year.
CENTER FOR RESEARCH LIBRARIES		Basis of volume count is bibliographic.
	1-3, 8	Includes Government documents (number estimated).
	5-7	Excludes most Government documents in collection.
	10	Figure for Computer files represents a collection of digitized files for Latin American Microfilm Project (LAMP) on CRL's Web site that appears to users as one large file but is actually many.

INSTITUTION	QUESTION NUMBER	NOTES
CENTER FOR RESEARCH LIBRARIES (cont.)	12-15	Audiovisual materials are counted with the material they accompany.
	18	Includes restricted-fund expenditures, some of which are grant funded.
	19	Includes funds for replacement.
	26	Excludes figures related to building maintenance. Increase reflects one-time costs of temporary employees and recruiting costs while filling Accounting and Personnel vacancies during year end audit.
	28-29	Decrease reflects some staff vacancies.
CHICAGO		Basis of volume count is bibliographic.
		Medical Library cannot be disaggregated from the main statistics, as the medical collection is an integral part of the science collection.
	3	Includes cataloged Government documents.
	4, 16	Excludes monographic series and continuations.
	7	Includes monographic series and cataloged Government document serials (paper and microform); excludes duplicate subscriptions.
	9	Chicago catalogs and classifies most Government documents for the general collections. The Library has no separate Government documents department, and counts of uncataloged Government documents are not maintained.
	10, 13-15	Does not include unprocessed items.
	17	Includes monographic series and duplicate subscriptions.
	18	Includes expenditures for some electronic media (LEXIS and WESTLAW) and some microforms and A-V materials. Other electronic media, manuscripts, etc. are included in Monographs expenditures (16) and Serials expenditures (17).
	22-25	Includes cost recovery positions and staff hired for special programs and grants.
	34	Figure based on sampling.
	38	Includes 635 requests filled by the Center for Research Libraries.
CINCINNATI		Volumes held June 30, 1997 revised to 2,465,768; previously uncatalogued government documents, totaling 113,055, were added to the volume count. AIT&L added the collection of the Environmental Health Library to its collections.
		Basis of University Library's count is physical. Basis of Medical Center's Library is bibliographic.
	9	Figure reflects addition of 113,005 previously uncatalogued records to volume count.
	12	Figure reflects addition of uncatalogued government documents.
	25	University Libraries personnel budget lines include the establishment of a new Multimedia Services Department and staffing for expanded contract services.
	26	Includes institutional grant for University-wide technical training.

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INSTITUTION	QUESTION NUMBER	NOTES
CINCINNATI (cont.)	34	Figure based on sampling. Improved method for data collection.
	37-38	Includes figures for branch campuses (Raymond Walters College and Clermont College).
COLORADO		Basis of volume count is bibliographic.
	5-7	Excludes Law Library in 1997-98.
	19	Bibliographic utilities = $291,638; memberships = $75,058.
	28	Includes 1 grant/gift.
	29	Includes 3 auxiliary and 1 grant.
	41	Conforms to IPEDS fall staff survey; not comparable to prior years when different definitions were used.
COLORADO STATE	1	Includes estimated 400,000 to 500,000 volumes damaged in the flood. CSU will be restoring these over a period of years.
	2	Includes 14,650 documents.
	8	Includes 1,910,417 documents.
	11	Reflects the re-inventorying of manuscripts and documents.
	19	Includes ARL ($15,100); CNI ($2,363); Educom ($1,446); Networking ($280,971); Dialog Class Searches ($336); First Search ($92,100); OVID Maintenance ($8,678); Dialog CARL ($30,949); GALENET ($1,186).
	28	Includes 6 FTE for special ILL project.
	37	No lending August 1997 to June 1998 due to flood disaster.
	38	Borrowing reflects flood replacement service.
	45	Increase reflects a change in the way part-time graduate students are counted. Registered students who are working on dissertations but are not taking classes are now counted.
COLUMBIA	1-8	Includes Government documents.
	2	Increase reflects a large one-time cataloging adjustment.
	18-19	Included in Monograph expenditures (16).
	34	Law and Medical Library figures based on sampling.
CONNECTICUT		1996-97 and 1997-98 figures include all branch campuses. Prior years included the Greater Hartford Campus but excluded the Avery Point, Stamford, Torrington, and Waterbury campuses.
	5-7	Government documents are not included in serial count.
	12	Increase due to accumulative figures from prior years. These statistics were unavailable for several years.

INSTITUTION	QUESTION NUMBER	NOTES
CORNELL		Includes Geneva Experiment Station; Ithaca campus includes the Africana, Engineering, Fine Arts, Hotel, Kroch (Rare & Mss. Coll.), Law, Management, Mathematics, Music, Olin/Kroch (Asia Coll.), Physical Sciences, Uris, Industrial & Labor Relations, Mann/Entomology, and Veterinary Medicine libraries.
	11	Manuscripts and archives are in cubic feet.
	28-31	Includes professional staff, support staff, and student assistants on grants and projects.
	36	Includes reserves.
	41	Faculty count includes only full, associate, and assistant professors. Excludes faculty at the Medical Division in New York City.
	42-45	Excludes Medical Division in New York City and students registered in absentia. Part-time enrollment reflects employee degree registrants only.
DARTMOUTH	28	Includes .5 FTE on soft money.
	29	Includes 1 FTE on soft money.
DELAWARE		Includes Marine Studies Library at the University of Delaware Marine Studies Research Complex in Lewes, Delaware.
	1-3, 8	Includes Government documents.
	22-25	Excludes professional and support staff in Information Technologies assigned to the library.
	34	90% sampling; 10% actual count.
	38	Does not include copies obtained from commercial document supplier.
DUKE	4	Excludes Law Library.
	5-7	Government documents are not included in serial count.
	19	Includes expenditures for database and search services, ILL fees, and document delivery.
	26	Includes some generated revenues which were not reported in previous years.
	31	Includes 13 FTE on special projects and grants.
	35-36	Includes some reserve circulations.
EMORY		Includes revised base volume count for Health Sciences Library (1,577), Theology Library (1,025), and General Libraries Government Documents (5,538).
		Includes Theology Library and Oxford Campus Library except were indicated.
	4	Does not include Theology Library or the Oxford Campus Library.
	9	Includes uncataloged government documents (pieces) from Law and General libraries.
	16-27	Figures are as of August 31, 1998.
	18	Includes acquisition cost of significant literary manuscript collection.

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INSTITUTION	QUESTION NUMBER	NOTES
EMORY (cont.)	22	Includes 5 FTE positions wholly or partially funded from grants.
	23	Includes 1 cost recovery position.
	26	Includes "package charge" computing overhead cost assignment of $850,000.
FLORIDA		Includes Borland Health Science Library in Jacksonville.
	4	Increase in monographs purchased is a result of enhanced approval plans.
	13	Increase in graphic material is a result of an inventory conducted by the Archive.
	19	Database Searches $123,816, ILL $37,285, Document Delivery $31,512, Preservation $79,609, Contracted Computer Services $379,902.
	34	Figure based on sampling.
	41	Decrease due to new method for calculating faculty.
	44-45	Figures include First Professional.
FLORIDA STATE		Includes branch campus in Panama City (holdings and materials expenditures only); excludes Developmental Research School.
	1-3	Includes most cataloged Government documents.
	4-6	Excludes Law Library.
	5-7	Government documents are not included in serial count.
	16	Includes some microforms, audiovisual materials, etc.
	19	Excluding Law (Online databases $343,549, Document delivery $73,543, outsourcing $6,099) Law Library (Computer bibliographic services $13,490, electronic files including online databases $73,773).
	40	Figure represents total number of doctoral degrees awarded; number of Ph.D. degrees not available.
GEORGE WASHINGTON		Includes the Gelman, Burns (Law), and Himmelfarb (Medical) libraries.
		Basis of volume count for Gelman is physical; for Burns and Himmelfarb is bibliographic.
		Figure revised by an increase of 1,169 volumes.
	2	Includes 8,509 volumes acquired through a large gift made by the Kiev family.
	3	Burns and Himmelfarb reporting a negative number totaling -2,643.
	4	Includes estimated figure for monographs held on standing order.
	6	Only Gelman data provided for government documents. Non-paid, non-depository number not available; Burns reporting 0; Himmelfarb reporting U/A.
	7	Decrease due to Gelman Library conversion project from NOTIS to Voyager and record clean-up. Decrease in Government Depository Serials, accounts for 75% of the total drop.

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INSTITUTION	QUESTION NUMBER	NOTES
GEORGE WASHINGTON (cont.)	8	Himmelfarb reporting 0.
	11	Burns reporting 0, Himmelfarb reporting U/A.
	12	Burns and Himmelfarb reporting 0.
	13	Burns reporting 0.
	14	Gelman s numbers are included in line 15.
	15	Includes count for audio units (Gelman only).
	19	Gelman: LEXIS-NEXIS ($12,450), Capcon ($136,517), WRLC ($482,082). Himmelfarb: LEXIS & WESTLAW ($75,000), web based databases and indexes ($17,122).
	26	Himmelfarb figures include access to bibliographic utilities, document delivery/ILL expenses, and furniture/computers/software.
	28	Includes 1.0 cost recovery position for Gelman.
	29	Includes 4.0 cost recovery positions, 11 shelvers, and 1 consultant for Gelman.
	30	Includes 2.0 cost recovery positions for Gelman.
	32-33	Burns data unavailable.
	34	Burns data unavailable; Gelman s figure based on sampling; Himmelfarb s figure is not based on sampling.
	35	Himmelfarb figure includes in-house use.
	36	Gelman Library implemented a significant policy change during FY 98. Loan periods were extended from three to six weeks for undergraduates. Three fixed due dates throughout the Fall and Spring semesters and two during the summer were established for all borrower categories. These changes resulted in books being held longer by undergraduates and many fewer renewals. Himmelfarb figure includes in- house use.
	41	Excludes clinical medicine. 1996-97 count was reported as FTE.
GEORGETOWN		Includes Lauinger, Woodstock Theological, Blommer Science, and the Kennedy Institute of Ethics libraries.
		Volumes held June 30, 1997 revised to 2,324,401 due to a one time addition of 152,188 cataloged government documents.
		Basis of volume count in Law Library is bibliographic.
		Statistics figures stayed constant due to decreases in funding at the Medical Library offset by increases at other campus libraries.
	3	Net decrease due to both the Law and Medical libraries adding less and withdrawing more.
	10	1996-97 figure revised to 8,776.
	11	1996-97 revised to 14,464.
	21	Medical Library contract binding paid from materials budget ($18,996).
	26	Includes operating expenditures and endowments.

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INSTITUTION	QUESTION NUMBER	NOTES
GEORGETOWN (cont.)	28	Medical Library paid 2.0 FTE professional staff from contracts and grants.
	35	Initial circulations not included for Medical Library.
GEORGIA	6	The University of Georgia is initializing a new system that should make this figure available next year.
	14-15	Include figures for media archives for materials not previously reported.
	19	Includes expenditures for bibliographic utilities in the Main Library, which had previously been reported in the monographs category.
	34	Figure for the Main Library based on sampling; no sampling for the Law Library.
GEORGIA TECH	1-3, 5-7	Includes Government documents that are cataloged, classified, and housed separately.
	6	A method has been developed for counting the government document serials we receive. Previous years figures were estimated.
	24	Hourly rates of pay for student workers were increased in order to compete with other departments vying for student workers.
	32	Increase reflects a greater demand from campus faculty for customized library instruction for their students.
	45	A definitive explanation for the fluctuations in part-time enrollment in recent years is unavailable, however, this trend may be due to Georgia Tech's conversion from an academic quarters system to a semester system.
GUELPH		All figures as of April 30, 1998.
		Basis of volume count is bibliographic.
	5-7	Government documents are not included in serial count.
	16-27	Expenditures reported in Canadian dollars: (16) $784,493; (17) $2,426,401; (18) U/A; (19) $57,026; (20) $3,267,920; (21) $86,953; (22) $1,502,583; (23) $3,231,899; (24) $148,800; (25) $4,883,282; (26) $1,831,885; (27) $10,070,040.
	19	Figure includes: memberships ($24,000); biblio/utilities ($20,000); online search ($6,000); archival/storage materials ($7,026); total ($57,026).
	22	Includes 1/2 time Special Projects Librarian.
	26	Figure includes a one-time $1,000,000 Heritage Fund for the purchase of TUG (TnUniversity Group) TRELLIS Integrated Library System (Hardware & Software).
	33	Data is incomplete due to missing data, in a number of categories, for the fall semester.
	45	Decrease reflects the discontinuation of part-time registration status for graduate students.
HARVARD		Volumes held as of June 30, 1997 revised to 13,607, 236.
		Includes research institutions in the District of Columbia and Italy.
		All Ph.D. degrees are awarded through the Graduate School of Arts and Sciences.

INSTITUTION	QUESTION NUMBER	NOTES
HARVARD (cont.)	1-2	Includes some Government documents.
	6	Includes some Government documents; excludes some international Government documents.
	8	Increase in microform units due to increase in acquisitions in faculty libraries.
	26	Includes some expense attributable to Miscellaneous expenditures (19).
	27	Separate figures for expenditures from grants and special projects are not available. Excludes fringe benefits ($9,470,196) and buildings and maintenance ($6,117,072) charged to Library budget. Includes cost recovery items ($5,596,987).
	37	Excludes items requested by Faculty libraries from Harvard Depository.
	40	Figure unavailable for this year. Figure represents what was reported last year and serves as the best approximation of the figure for this year.
	41	Number represents total headcount, separate figures for full and part-time positions are unavailable.
		Excludes Medicine and Dental.
HAWAII	1-3, 5-8	Includes Government documents; based on a formula applied to a piece count.
	4	Figure represents monographic titles purchased; piece count is not available.
	16	Book funding restored to more normal level.
	28	Includes 2 FTE funded through cost recovery funds.
	38	Includes new service: self-initiated, unmediated document requests via UnCover subsidized by the library.
HOUSTON		All figures are as of August 31, 1998.
		Includes Art and Architecture, Music, Optometry, and Pharmacy main campus libraries.
		Excludes branch campus libraries at Clear Lake, Victoria, and Downtown.
	5-7	Government documents are not included in serial count.
	19	The total of $266,696 is disaggregated as follows: Bibliographic Services ($178,609), Literature Searching ($83,087), Non-contract bindery ($5,000).
	47	Law Library includes government documents in count of current serials; other campus libraries do not.
HOWARD	5-7	Government documents are not included in serial count.
	22, 23	Includes institutional support for electronic information systems.
	26	Includes professional fees paid for program and design professional services for new library buildings. Includes consultants fees for Law Library ($2,013,635) and the Louis Stokes Health Sciences Library ($2,323,907).

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INSTITUTION	QUESTION NUMBER	NOTES
ILLINOIS, CHICAGO	4	Includes Government documents.
	10	Re-adjusted count is by title, not by unit.
	13-14	Include Special Collections.
	17	Decrease due to some serial cancellations, including some very expensive subscriptions.
	20	Figure is down due to change in carrying over prior year expenditures.
	28	Figure down due to a 1% revision in FY 98 budget and also due to keeping positions vacant to capture lapsed salary money.
	37	Large drop in number of filled requests for materials loaned to other libraries reflects temporary move from statewide to local circulation system.
	38	Figure reported for 1996-97 inadvertently included a duplicate count of part of the operation. Figure for 1996-97 revised to 69,501.
ILLINOIS, URBANA	19	Includes preservation to outside vendor ($13,957); Express, Freight, and Postage ($114,410); Interlibrary Loan ($23,675); Handling ($63,712); Document Delivery ($34,979); Electronic resources ($370,580); CRL Membership ($48,795); Collection Support ($331,700); Year-end adjustment ($197); and ARTFL ($425).
	28	Includes 44.0 FTE graduate assistants.
	33	Figure is a mix of exact numbers and estimates depending upon individual units. Discrepancies are the result of count changes.
	34	Figure based on sampling.
INDIANA		Excludes branch campus libraries at Indianapolis, Ft. Wayne, Kokomo, South Bend, Gary, New Albany, Richmond, and Columbus.
	26	The totals for 1996-97 were abnormally high due to the start-up costs for equipment and programming expenditures in connection with the Ameritech Horizon Project. The delay in the Ameritech Horizon Project due to software development problems plus budget reallocations resulting in reductions in the operational budget combined to create a large drop in expenditure totals for 1997-98.
	39	Figure reported for 1996-97 was incorrect. It should have been reported as 306.
	40	Previously reported figures also reflected degrees other than Ph.D.
IOWA	1-3	Excludes annuals and proceedings.
	3	Increase partly due to the addition of several large gift collections to the Law Library.
	4	Volumes purchased estimated for Law Library. Includes music scores and some annuals.
	5, 7	Titles now reported include numbered monographic series.
	18	Includes microform serials (Law).
	22	Excludes salary for .5 FTE Associate Dean for Research in Law. $281,950 deducted from salary allocation and returned to University's Central Administration.

INSTITUTION	QUESTION NUMBER	NOTES
IOWA (cont.)	26	ex Judies fringe benefits (Law library).
	34	Based on two weekly surveys taken each year, then multiplied (Law Library).
	35	Includes Law Library. Figure not available for the Main Library.
	42	Includes 578 clinical and pre-clinical faculty with departmental appointments, in addition to the 1,024 instructional faculty.
IOWA STATE	2, 2a	The formula 5.2 document pieces per volume was used to estimate the number of government documents.
	3	Increase due to the fact that the figure for 1996-97 was extremely low because of a large number of withdrawals associated with a review of materials in storage.
	5, 6	This year's figures count individual titles within sets, a change from previous years, and correct an error in categorizing some depository titles as paid subscriptions.
	18	Increase due to larger expenditures in 1997-98 for electronic resources which are counted in this category.
	19	Includes preservation supplies and reformatting contract services ($74,894), ILL document service charges ($30,000), additional acquisitions postage ($15,225), and support for local information services ($44,516).
	29-30	Cost recovery/grant/special project positions, paid out of other academic accounts, include 1.5 FTE for professional staff (28), 3.7 FTE for support staff (29), and 2.4 FTE for student assistants (30).
JOHNS HOPKINS		Includes Eisenhower Library, Welch Medical Library, Institute of the History of Medicine, School of Hygiene and Public Health Library, Peabody Conservatory Library, Applied Physics Laboratory Library, School of Advanced International Studies (SAIS) in Washington, DC, and Bologna, Italy, the Center for Italian Studies in Florence, Italy, the Montgomery County Center in Rockville, MD, and the School of Continuing Studies, Columbia Center and Downtown Center.
		Excludes SAIS in Nanjing, China.
		Data from the Applied Physics Laboratory covers January through December 1997.
	1	Includes Government documents based on ARL formula.
	19	Includes literature searching and postage for library materials.
	36	1996-97 figure revised to 581,892.
KANSAS		Includes Regents Center Library in Overland Park, Health Sciences Library and Clendening History of Medicine Library in Kansas City.
		Excludes University of Kansas School of Medicine at Wichita.
	1-3, 5-8	Includes Government documents.
	4	Volume count not available; figure reflects number of monograph titles purchased.
	11	Includes an additional 41,588 linear feet of University Records that are kept in University Archives. In past years this number was not included in this figure.

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INSTITUTION	QUESTION NUMBER	NOTES
KANSAS (cont.)	26	Includes $185,667 of one-time equipment purchases.
	40	Includes the Speech Pathology and Audiology fields that are inter-campus programs for Medical Library. Main Library includes one joint program with Kansas State University.
KENT STATE		Includes branch campuses at Ashtabula, Geauga, East Liverpool, Salem, Stark, Trumbull, and Tuscarawas.
	16-27, 28-31	Expenditure and personnel figures include Audiovisual Services, Teleproductions, Instructional Resources Center, and Distributed Learning.
KENTUCKY		Includes Agriculture, Architecture, Art, Biological Sciences, Chemistry / Physics, Education, Engineering, Geological Sciences, Law, Mathematical Sciences, Medical Center, Music, and the William T. Young Library.
	37-38	While moving into the William T. Young Library, some Interlibrary Loan units were in non-supplier status for five months causing a decrease in the number of ILL loans and borrows.
LAVAL		All figures are as of May 31, 1998.
		Medical and Law Library statistics cannot be disaggregated from the main statistics because the Medical and Law collections are an integral part of the main library.
	3	During this past year, documents from our undergraduate collections have been withdrawn: 34,867 in 1997-98; 9,132 in 1996-97.
	4, 6	Decrease is due to inflation rate for periodicals.
	16-27	Expenditures reported in Canadian dollars: (16) $1,771,035; (17) $4,558,292; (18) $185,706; (19) $96,940; (20) $6,611,973; (21) $13,420; (22) $3,417,474; (23) $5,112,191; (24) $74,870; (25) $8,604,535; (26) $662,461; (27) $15,892,389.
	21	Most binding is done in-house.
	22	Decrease due to budget cuts for salaries and wages resulting from government subventions in Quebec Province.
	30	Includes expenditures for a new program to offer jobs to students as well as expenditures for incidentals.
LIBRARY OF CONGRESS		All figures are as of September 30, 1998.
	2	Arrearage reduction effort underway; this figure includes many prior-year acquisitions.
	7	Total number of current serials can only be estimated.
	32-34	Some units use sampling methods to report these numbers.
LINDA HALL		All figures are as of December 31, 1997.
	1-3, 5-8	Includes Government documents.
	9	Government document piece count estimated.

INSTITUTION	QUESTION NUMBER	NOTES
LOUISIANA STATE	2a, 3	Withdrawal activity greatly increased this year. This will be temporary. Volumes added net decreased significantly.
	4-7	The basis for these counts changed this year. There has been no substantial cancellation or new subscription activity.
	12	Previously, figure based on an estimate. Decrease from last year due to actual count of cartographic materials for 1997-98.
	14, 15	Decrease due to a revised count.
	28	1996-97 figure revised to 49.
McGILL		All figures are as of May 31, 1998.
		Basis of volume count is bibliographic.
	3	Increase due to growth in the general collection and Rare Books Collection. The withdrawals in the previous year (1996-97) also included a major weeding of duplicates in the religion collections.
	5-7, 16, 17	This year numbered monograph series were counted with monographs (in both holdings and financial data). Changes will be in effect for next year.
	16-27	Figures reported in Canadian dollars: (16) $2,596,887; (17) $4,059,413; (18) $896,021; (19) $369,741; (20) $7,922,062; (21) $300,094; (22) $3,755,045; (23) $4,865,026; (24) $772,167; (25) $9,392,238; (26) $961,740; (27) $18,576,134.
	19	Includes Tattletapes (Can $60,604), bibliographic utilities/searching (Can $145,057), memberships (Can $120,563), and appraisals (Can $43,547).
	22	The actual decrease in salaries in Canadian dollars is 7%. The difference in the conversion rate between 1996-97 and 1997-98 accounts for the rest. Our expenditures were reduced by 7% due to retirement and resignations.
	26	Includes capital equipment (Can $55,748).
	32-33	Electronic searching presentations added.
McMASTER		All figures are as of April 30, 1998.
	2-3	Increase due to a special project to bind unbound complete periodicals.
	4	Number of monographic volumes purchased is an estimated figure.
	16-27	Figures reported in Canadian dollars were (16) $1,167,805; (17) $3,747,330; (18) $26,686; (19) $30,130; (20) $4,971,951; (21) $142,157; (22) $1,867,519; (23) $3,592,251; (24) $172,750; (25) $5,632,520; (26) $1,180,224; (27) $11,926,852.
	24, 30	Includes library interns.
	26	Includes appropriated funds for bibliographic system.
	37	Includes hospital network lending figures for the first time.
MANITOBA		All figures are as of March 31, 1998.

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INSTITUTION	QUESTION NUMBER	NOTES
MANITOBA (cont.)	3	Figure reflects addition of two large gift collections.
	5-7	Government documents are not included in serial count.
	10	1996-97 figure revised to 1,124.
	16-27	Expenditures reported in Canadian dollars: (16) $1,171,001; (17) $3,018,397; (18) U/A; (19) $169,921; (20) $4,359,319; (21) $172,834; (22) $3,054,714; (23) $3,964,253; (24) $529,563; (25) $7,548,530; (26) $1,636,438; (27) $13,717,121.
	19	Includes document delivery charges previously reported under other operating expenditures (26).
	28	Professional staff includes 1.0 FTE project-funded position.
MARYLAND	2a	Withdrawals up as Undergraduate Library is assimilated into other collections.
	2, 3	Figure reflects decreased cataloging activity due to increased difficulty and processing time.
	14	Includes large gift of audio tapes.
	17	One time enhancement funding added to prevent journal cancellations.
	18	One time enhancement funding added to purchase electronic resources.
	20	One time enhancement funding provided by the University.
	42	1996-97 figure revised to 33,006.
MASSACHUSETTS	12	Decrease in maps due to deaccessioning of approximately 20,000 items that were discarded to another collection.
	18	Decrease in expenditures for other library materials is due to more accurate accounting distinctions than previously available.
MIT	1-3, 5-8	Includes government documents.
	19	Includes literature searching ($21,048), postage ($33,775), and microfilming ($1,332).
MIAMI	13	1997-98 figure reflects current holdings; 1996-97 figure reported incorrectly.
MICHIGAN		Includes Bentlay Historical Library, William L. Clements Library, Kresge Business Library, and Law Library. Excludes Dearborn Campus Library and the University of Michigan-Flint Library.
	1-3, 5-8	Includes Government documents.
	5-6 •	Figures for Law Library are estimated.
	10, 13	Includes counts from Digital Library Program.
	16-20	Figures for the William L. Clements Library are estimated.
	17	Includes microform serials.

INSTITUTION	QUESTION NUMBER	NOTES
MICHIGAN (cont.)	18	Increase due to Law Library's commitment to convert volumes into microforms instead of storing them off-site.
	22	Includes wages only for librarians.
	23	Includes wages for Professional/Administrative and Clerical categories.
	40	Includes Ph.D. fields only; professional degrees and individualized program degrees are excluded.
MICHIGAN STATE	5-7	Includes monographic series that cannot be disaggregated. Includes Government documents.
	17	Includes expenditures for monographic series that cannot be disaggregated.
	18	Included in Monograph expenditures (16) and Serial expenditures (17).
	24	Includes grant and revenue accounts.
MINNESOTA		Excludes branch campus libraries at Duluth, Morris, and Crookston.
		Basis of volume count is bibliographic.
	4	Figure reflects titles, not volumes.
	13-15	Individual counts unavailable. Total Audiovisual is 783,175.
	18	Includes expenditures of $323,013 for purchased machine-readable files.
	19	Includes $504,013 for access to electronic information.
	26	Includes one-time cost for remodeling of $210,951 and an enterprise tax of $479,131.
	34	Figure represents a combination of actual counting and sampling.
	42-43	Change in enrollment figures between part-time and full-time students is the result of an error discovered in the program that reported the data for 1997. This error was corrected for 1998 and the figures for this year are correct. The previous figure has not been amended.
MISSOURI	5	Includes 5,184 Law serials, which may contain a few nonpurchased materials.
	9	Figure reported is the same as 1996-97, no figure available for 1997-98.
	17	Includes $228,906 for databases.
	21	1996-97 figure revised to $120,474.
	22	Includes $167,449 from UM Library Systems Office for OPAC.
	23	Includes $12,165 from UM Library Systems Office for OPAC.
	26	Includes $247,096 from UM Library Systems Office for OPAC.
	32-33	Figures from Law Library are based on sampling.
NATL. AGRICULTURAL LIBRARY		All figures are as of September 30, 1998.

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INSTITUTION	QUESTION NUMBER	NOTES
NATL. AGRICULTURAL LIBRARY (cont.)		Excludes USDA field libraries.
	1-3, 5-8	Includes Government documents.
	12-15	Figures represent title counts, not piece counts.
	18	Included in (16) and (17).
	32-33	Change reflects NAL's increased emphasis on electronic presentation of information to reach larger audience and the temporary closure of training and meeting rooms for renovation.
	34	Change reflects NAL's increased emphasis on electronic presentation of information which results in a reduction in mediated service requests.
NATL. LIBRARY OF CANADA		All figures are as of March 31, 1998.
	1-4	Excludes government documents.
	3	A large cataloging backlog, resulting from the switch in bibliographic systems in 1996-97 from DOBIS to AMICUS, was eliminated in 1997-98.
	4-5	In addition to monographs purchased, two copies of documents published in Canada are received on legal deposit.
	6	Includes all active serials (non-government, Canadian federal and provincial government, and UNESCO) that are counted as copies. The concept of "copy" is equivalent to a subscription.
	16-17	Canadian monographs and serials are received on legal deposit. Excludes materials purchased for staff as working copies.
	16-27	Expenditures reported in Canadian dollars: (16) $529,884; (17) $565,885; (18) $487,672; (19) $65,697; (20) $1,649,137; (21) $11,743; (22) $10,243,303; (23) $8,379,141; (24) $229,103; (25) $18,851,547; (26) $7,847,091; (27) $28,359,518.
	20	Decrease due to government wide budget cuts.
	28-31	Utilized person-years.
	32-33	Figures now include orientation sessions, guided tours, and attendance at presentations.
	34	Decrease due to a change in the method of counting a reference request. Some levels of reference requests were eliminated and as a result were not counted in 1997-98.
	35	1996-97 figure revised to 122,923. In addition, due to a project conducted in a specialized area of NLC (Children's Literature Service), 32,000 items were circulated.
	36	1996-97 figure revised to 194,420.
NATL. LIBRARY OF MEDICINE		All figures are as of September 30, 1998.
NEBRASKA	4, 9, 10	Figures unavailable for Law Library.
	6, 7	Includes Government documents.
	11	Figures not applicable for Law Library.

INSTITUTION	QUESTION NUMBER	NOTES
NEBRASKA (cont.)	13	Law Library reported 0. For other libraries, figure includes only those Government documents cataloged using OCLC.
	14-15	Includes only those Government documents cataloged using OCLC.
	28	Includes 1 FTE on grant funds. 1996-97 figure revised to 46.
	29	Includes 2.0 FTE support staff on grant funds and .5 FTE support staff on indirect cost funds.
NEW MEXICO		The General Library, the Law Library, and the Health Sciences Center Library are separately funded and administered.
		Includes the following main campus libraries: Bainbridge Bunting Slide Library, Memorial Slide Library, MEC/Equity Library, Tireman Learning Materials Library, and Native American Studies Center Library.
		Excludes the following branch campus libraries: Gallup Campus, Harwood Foundation, Los Alamos Campus, Santa Fe Graduate Center, Taos Education Center, Valencia County Campus.
		Volumes held June 30, 1997 revised to 2,174,959 holdings; Health Sciences Center incorrectly reported 163,903 volumes held last year, instead of the correct 163,156 volumes.
		Basis of volume count is bibliographic.
	2	General Library multiplies number of non-government document titles by conversion factor 1.2 to estimate volumes. General Library divides number of Government document pieces by 5.2 to estimate volumes.
	4	General Library and Health Sciences Center Library report titles only.
	6-7	General Library includes Government documents in Current serials received (6). Law Library and Health Sciences Center Library exclude Government documents from Current serials received (6).
	6	General Library holdings reported based on actual count by University of Iowa of government depository serials currently received.
	10, 13, 14, 15	Health Sciences Center Library reports titles, not units.
	18	General library increased materials purchased; other libraries began reporting this figure.
	22	Decrease reflects a new method of reporting professionals within the Health Sciences Center Library. Previously, the library included non-faculty staff professionals. Now, they are only reporting faculty in this group.
	24, 30	General library increased number of work study positions and hired more student assistants.
	26	Includes appropriation from State Legislature for the Center for Southwest Research.
	28-31	Health Sciences Center, in the past, has counted Professional staff (not faculty) in (28). This year the Health Sciences Center began counting this category more consistently with (but still not the same as) the ARL salary survey response.
	33	Dramatic increase in numbers reflects a more concentrated effort at accurate reporting.
	34	Does not include one-to-one supplemental instruction in course content delivered by the General Library Center for Academic Program Support.

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INSTITUTION	QUESTION NUMBER	NOTES
NEW MEXICO (cont.)	37	General and Health Sciences libraries both reported decreases in ILL filled requests, possibly due to increased full-text electronic resources purchased this year.
	40	1996-97 figure revised to 38.
NEW YORK		All figures as of August 31, 1998.
		Includes Elmer Holmes Bobst Library, Institute of Fine Arts, Real Estate Institute, Courant Institute of Mathematical Sciences, Kriser Dental Center, Ehrman Medical Library, and the Law School Library.
		Volumes held June 30,1997 revised to 3,618,244 due to a calculation error.
	40	This figure will vary from year to year because enrollment in a particular area (usually a very small program) will fall to zero in a particular year.
NEW YORK PUBLIC LIBRARY	5-7	Government documents are not included in serial count.
	38	Decrease due to the General Research Division's move into interim space in July 1997, resulting in a decrease in the number of readers requesting materials via inter-library loan.
NEW YORK STATE LIBRARY		All figures as of March 31, 1998.
		Medical and Law Library statistics cannot be disaggregated from the main statistics because the Medical and Law collections are an integral part of the main library.
NORTH CAROLINA		Includes Institute of Marine Sciences Library.
	1-3, 5-8	Includes Government documents.
	3	Decrease is indicative of a peak buying year in 1996-97 due to the availability of special one-time funds. Also, major cataloging backlogs were cleared in 1996-97 and the Law Library completed a large weeding project; all this activity resulted in a lower figure for this year.
	19	Includes payments for CRL memberships. In previous years this category also included electronic database access purchases. Beginning with fiscal year 1997-98 database access purchases are included in Other Library Materials (18).
	27	Includes $2,888,250 in grants, trust, and other special funds; excludes $354,980 in expenditures for the Triangle Research Libraries Network from funds contributed by Duke, North Carolina State, and North Carolina Central Universities.
	28-31	Includes 1.5 FTE on special grant funds; excludes 4.0 FTE paid from funds contributed by Duke, North Carolina State, and North Carolina Central Universities for support of the Triangle Research Libraries Network.
	40	1996-97 figure revised to 61.
NORTH CAROLINA STATE		Includes Veterinary Medical Library.
	4	Includes some monographic standing order items paid from serials funds.
	5	Increase in serials is a result of increased funding for collections.
	11	Increase due to recently established special collections program.

INSTITUTION	QUESTION NUMBER	NOTES
NORTH CAROLINA STATE (cont.)	16-17	Some monographic titles are paid from serials funds included in (17).
	17	Excludes expenditures for electronic resources as part of NC LIVE consortium.
	19	Includes bibliographic utilities ($124,066), document delivery ($39,465), and memberships ($167,533).
	38	Increase in borrowing due to the introduction of TRIPSaver expedited delivery service.
	39	Figure for last year included Ed.D.'s. This year's figure includes only Ph.D. degrees.
	61	Fall 1997 figures.
NORTHWESTERN		All figures are as of August 31, 1998.
		Includes Law and Health Sciences libraries on Chicago Campus (Medical and Dental libraries have merged to form Health Sciences Library).
	1-3	Includes Government documents.
	11	Excludes Law and Health Sciences libraries.
	13	Excludes Health Sciences libraries.
NOTRE DAME	4	Figure for the Law Library is unavailable.
	5-7	Government documents not included in count of current serials.
	11	Figure unavailable for the University libraries. Law Library reported 0.
	26	Among other expenses, this figure represents costs associated with the purchase of a library management system (Ex Libris' *Aleph*) and significant capital equipment purchases to upgrade public/staff/faculty workstations at the University libraries.
	32	Figure unavailable for the Law Library.
	33	Figure unavailable for the Law Library. University Libraries' figure is calculated as Presentations to groups (32) multiplied by 20. Twenty is the estimated average number of attendees.
OHIO		Includes Athens (main) campus holdings in Alden Library, the Music/Dance Library, the Chemistry/Physics Reading Room, and the Mathematics/Computer Science Reading Room. Includes branch campus libraries in Chillicothe, Lancaster, Ironton, St. Clairsville, and Zanesville.
	19	Includes document delivery, e-journals, membership dues, and database membership.
	24	Includes federal work-study support.
	34	Does not include non-reference questions. In previous years these questions were included.

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INSTITUTION	QUESTION NUMBER	NOTES
OHIO STATE		Includes Agriculture; Biological Sciences/Pharmacy; Business; Education; Human Ecology; Psychology, and Social Work; Fine Arts; Geology; Health Sciences; Journalism; Law; Music/Dance; Science/Engineering; and Veterinary Medicine Libraries.
		Excludes branch libraries at the Lima, Mansfield, Marion, and Newark Regional campuses, the Agricultural Technical Institute, and the Ohio Agricultural Research and Development Center in Wooster.
		Volumes held June 30, 1997 revised to 5,087,136.
		Basis of volume count is bibliographic.
	1-7	Includes Goverment documents.
	37-38	Figures reflect traditional ILL, plus materials loaned and borrowed via the OhioLINK statewide system.
OKLAHOMA		Volumes held June 30, 1997 revised to 3,992,916 due to the inclusion of Government Documents holdings in the volume count.
	1-7	Government Documents holdings reported for the first time. Previously they were reported separately (question 9).
	5-7	Government documents are not included in serial count.
OKLAHOMA STATE		Includes Architecture, Curriculum Materials, Edmon Low, Patent and Trademark, and Veterinary Medicine libraries.
		Includes OSU technical branches in Oklahoma City and Okmulgee and OSU's College of Osteopathic Medicine in Tulsa.
	5-6	Present online acquisitions system does not make the distinction between serials that are purchased and those that are received as gifts.
OREGON	12	Reduced holdings for 1997-98 (695,650) reflect a corrected base of 680,816 for 1996-97.
PENNSYLVANIA	2	Increase reflects cataloging arrearages due to the introduction of a new automated system.
	17	Includes for the first-time expenditures for licensed networked databases.
	26	Includes expenditures for major computing infrastructure upgrade, and a major library renovation project.
	35	Decrease reflects the elimination of intradepartmental, bindery and other processing circulation records due to new automated system. Previous system required related uses to be coded as initial circulation transactions.
PENNSYLVANIA STATE		Includes main campus and branches at Abington-Ogontz, Allentown, Altoona, Beaver, Berks, Delaware, DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Penn State Erie, Penn State Great Valley, Penn State Harrisburg, Schuylkill, Shenango Valley, Wilkes-Barre, Worthington-Scranton, and York, unless specified otherwise.
		1996-97 was the first year that the Medical Library and Library Computing Services department statistics were included.

INSTITUTION	QUESTION NUMBER	NOTES
PENNSYLVANIA STATE (cont.)		1997-98 was the first year that the Law Library (Dickinson School of Law) statistics were included.
		Volumes held June 30, 1997 revised to 4,156,609 due to the inclusion of the law library.
	5-7	Government Documents are included in count of current serials for main campus and Medical Library only.
	8	Increase due to the addition of the Law Library for the first time this year.
	13-14	1994-95 was the first year that graphic and audio materials at the branch campuses began to be cataloged and counted.
	34	Figure derived from sampling for main campus and Law Library only (extrapolation figure used: 41.2987); actual numbers reported for branch campuses and Medical Library.
PITTSBURGH		Includes branch campus libraries at Bradford, Greensburg, Johnstown, and Titusville.
PRINCETON	36	Includes branch libraries. Last year's figure did not include branch campus libraries.
PURDUE		Excludes branch campuses at Purdue North Central in Westville, Purdue Calumet in Hammond, and Purdue Fort Wayne in Ft. Wayne.
		Basis of volume count is bibliographic.
	1-3	Includes cataloged Government documents.
	4	Excludes volumes purchased on sponsored research programs.
	5-7	Excludes some numbered monographic series.
	6	Prior to 1995-96, the number of current serials, including periodicals, received but not purchased included only gift serials. Beginning with 1995-96, this reporting category includes cataloged depository, exchange, and gift serials.
	18	Expenditures for these materials are included in Monograph expenditures (16) and Serial expenditures (17), and cannot be disaggregated.
	26	Includes purchase of software and hardware for new integrated on-line system. Decrease due to the fact that the figure for 1996-97 included significant expenditures toward a new OPAC system that did not reoccur in 1997-98.
	32-34	In addition to presentations to group and personal, one-to-one instruction, we recorded 441 users of our On-Line, interactive tutorial, PLUTO (Purdue Libraries Universal Tutorial Online).
QUEEN'S		All figures are as of April 30, 1998.
		Basis of volume count is bibliographic.
	1-15	Excludes Government documents.
	3	Increase in volumes added (net) due to large weeding project in 1996-97 with over 15,000 volumes withdrawn, whereby net volumes added in 1996-97 was significantly lower than in 1997-98.

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INSTITUTION	QUESTION NUMBER	NOTES
QUEEN'S (cont.)	4	Purchased volumes received.
	5-7	Government documents are not included in serial count.
	7	Figure reflects serial titles received.
	13	Excludes Education Library.
	16-27	Expenditures reported in Canadian dollars: (16) $1,349,111; (17) $3,889,870; (18) $36,246; (19) $48,132; (20) $5,323,359; (21) $166,647; (22) $1,983,156; (23) $4,089,168; (24) $342,346; (25) $6,414,670; (26) $698,687; (27) $12,603,363.
	17	Includes microforms.
	18	Includes audiovisual materials only.
	19	Includes document delivery services.
	28	Includes 1.0 FTE librarian contract position paid on soft money, not operating funds.
	42	All ranks combined, including deans and excluding preclinical and clinical instructors.
	43-46	Enrollments as of November 1, 1997.
	45	Excludes Interns, Residents, and Fellows.
RICE		Volume count erroneously reported as bibliographic in previous years.
	4	Figure represents title count.
	9	Uncataloged government documents count previously reported erroneously; included (and duplicated) 20,966 microform units.
	10	1996-97 figure revised to 4,149.
	11	Manuscripts and archives are in cubic feet.
	19	Includes Memberships ($18,246), ILL ($84,891), CRL ($32,814), Literature Searching ($77,182).
	22-23	Includes salary expenditures for contract/project labor.
	38-39	Excludes fee-based off-campus information delivery operation.
ROCHESTER	1	Basis for volume count for Sibley Music Library is bibliographic.
	1, 4	Includes Government documents for River Campus libraries.
	5-7	Government Documents are not included in count of current serials.
	3	15,428 volumes withdrawn at the Edward G. Miner Library. Due to space constraints effort is underway to eliminate older books no longer circulating.
	5	1996-97 figure did not include numbered or unnumbered monographic series.
	6	Figure unavailable for Sibley Music Library. Included in Current serials purchased (5).
	9	Excludes Sibley Music Library.

INSTITUTION	QUESTION NUMBER	NOTES
ROCHESTER (cont.)	13	Edward G. Miner Library only.
	14	Excludes Edward G. Miner Library.
	17	River Campus libraries includes monographic series and electronic serials.
	18	Includes increased expenditures for the Edward G. Miner Library for electronic resources for on-going cooperative project to share databases with neighboring institutions. Last year, only the Miner Library's share was reported.
	19	River Campus libraries only. 1996-97 figure included approximately $100,000 in electronic publications and $40,000 in CRL membership and document delivery; 1997-98 figure decreased due to reporting these figures under (17).
	26	Extensive and successful fund raising has allowed the River Campus Libraries to undertake large renovation projects. Capital expenditures for the implementation of Voyager are also included.
	35	1996-97 figure not available for Sibley Library; 1997-98 figure includes 34,570 for the Sibley Library.
	35, 36	Includes Reserves; Voyager system breakdown not available.
	40	Decrease due to the Renaissance Plan of the University, which provides for the elimination of certain disciplines.
RUTGERS		Figures include two law libraries, services to a non-Rutgers medical school, and campuses in Camden, Newark, and New Brunswick.
	1, 3	Includes newly cataloged Government documents.
	12-15	Total Audiovisual materials is 119,880 items.
	19	Includes memberships ($125,151) and publications packages ($449,968).
	25, 31	Excludes staff hired for special projects and grants.
	26	Includes $331,362 for computer hardware and software for new integrated library system.
	34	Figure based on sampling.
	35	Increase due to more accurate compilation due to new Sirsi Unicorn System.
SASKATCHEWAN		All figures are as of April 30, 1998.
		Excludes Theological College libraries on campus that are not part of the library system.
		Includes Education, Engineering, Geology/Physics, Thorvaldson, and Veterinary Medicine branch libraries.
	1-7	Includes Government documents.
	4	Figure represents titles purchased.
	22	Computer programmers, technicians, and budget officers included in professional staff.

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INSTITUTION	QUESTION NUMBER	NOTES
SASKATCHEWAN (cont.)	16-27	Expenditures reported in Canadian dollars: (16) $1,230,567; (17) $3,913,635; (18) U/A; (19) $189,318; (20) $5,333,520; (21) $101,379; (22) $2,214,787; (23) $2,955,270; (24) $266,478; (25) $5,436,535; (26) $973,060; (27) $11,844,494.
	27	Includes funding from grants and special funds.
	43	1996-97 figure revised to 2,761.
SMITHSONIAN		All figures are as of September 30, 1998.
		Branches outside Washington DC include: Cooper-Hewitt Museum of Decorative Arts and Design, New York City; and Smithsonian Tropical Research Institute in Panama.
	1-4	As purchasing agent for all library materials for the Smithsonian Institution, Smithsonian Institution Libraries (SIL) purchases monographs and serials for some libraries that are not under SIL administration. The non-SIL libraries are located in the Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, National Museum of American Art, National Portrait Gallery, and the Gustav Heye Center of the National Museum of the American Indian. Purchases for non-SIL libraries are not added to the SIL collections but the expenditures for monographs and serials are in those figures.
	2	Represents volumes received in the SIL branches. Microforms are not included.
	5	Represents the number of titles, not volumes. Includes purchases for SIL and non-SIL libraries. The cost of purchases for non-SIL libraries is included in Monograph expenditures (16) and Serial expenditures (17).
	5-7	Government documents are not included in serial count.
	8	Figure given is pieces. Figure is reported for the first time in 1997-98.
	10, 12-15	Reporting titles. Figures reported for the first time in 1997-98. The count begins with 1998. No count has been done for the entire collection of each category prior to 1998.
	16	Includes expenditures for both print and non-print items.
	18	Includes ILL and preservation /conservation contracts.
	19	Includes database searching, document delivery, and OCLC.
	24	Six different students worked an estimated total of 2.0 FTE. Salary costs for students are included in (24).
	25	Actual "on board" costs. Does not include any "lapsed salaries" due to vacancies. Lapsed salaries were reprogrammed for expenditures in other areas.
	26	Includes contract cataloging, general, preservation and automation supplies and equipment purchases, memberships, and miscellaneous contracts. Excludes health and medical benefits, travel, training, building maintenance, equipment maintenance and service, public, exhibition, staff programs, and miscellaneous programs.
	26	Total funding from federal and private sources is $7,757,974.
	32	There is no formal bibliographic instruction program. Instruction provided as needed.
	34	Includes time spent on bibliographic instruction as the need arose, for individuals or groups.
	37-38	Interlibrary loan activity was lower this year due to the closing of three branches for construction.

INSTITUTION	QUESTION NUMBER	NOTES
SOUTH CAROLINA	34	Figure based on sampling.
SOUTHERN CALIFORNIA		Includes Law Library, which is an administratively separate library located on Main Campus. Includes Health Sciences Library System, which is an administratively separate system and located on a separate Health Sciences Campus except for the Dental Library, which is located on Main Campus.
		Basis of volume count is physical for Main and Health Sciences Libraries but bibliographic for Law.
	8	Number includes 75,641 microform units added and 87,645 microform units removed in a weeding project on Main campus.
	9	Main campus only.
	12	Figure is unavailable for main campus. Figure for Law Library is 54; figure for Health Sciences Library System is 0.
	17	Figure decreased for Main campus although total number of serials increased by 294 because of better record keeping.
	19	$980,210 reported for the main campus includes some ILL costs, memberships, and database costs. $67,384 reported for the Health Sciences Library System includes databases from NLM; Law Library figure is 0.
	20	Figure for Main campus includes $555,158 in special funds.
	32-34	Law Library figures are based on sampling; Main Campus and Health Sciences Libraries use actual count.
SOUTHERN ILLINOIS		Excludes School of Medicine Library in Springfield, which is not administratively part of Library Affairs.
	1-3	Includes Government documents.
	4	Figure reflects title count.
	5-7	Government documents are not included in serial count.
	34	Figure based on sampling.
STANFORD		Volumes held June 30, 1997 revised to 6,862,992.
		Figures include Hopkins Marine Station Library.
		Medical and Law Library statistics cannot be disaggregated from the main statistics because the Medical and Law collections are an integral part of the main library.
		All totals reflect 1991-92 figures for the Stanford Linear Accelerator Center, which has been unable to report since 1992.
	1-3, 5-8	Includes Government documents.
	2, 2a	Figures reflect internal transfers to our auxiliary library.
	5-7	Government documents are not included in serial count.

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INSTITUTION	QUESTION NUMBER	NOTES
STANFORD (cont.)	22-24	Above normal increases in salaries and overall expenditures due to the fact that staff benefits of 25.3% are included in the 1997-98 statistics and were not included in the 1996-97 statistics. In addition, the members of Highwire Press professional staff increased.
	27	Includes $159,017 in grant and contract funds.
	34	Decrease in reference transaction is a result of the flood in February 1997.
	37	Decrease partially related to flood of February 1997. Also, 1996-97 figure was incorrect.
	42-45	Decreases partially due to lower enrollment. Figures for 1997-98 reported according to IPEDS categories. Previous years not reported this way. IPEDS excludes overseas studies students, thus, Stanford's records are more inclusive than IPEDS which explains the decrease in figures due to the implementation of the new system.
SUNY-ALBANY		Includes the Thomas E. Dewey Graduate Library of Public Affairs and Policy on the east campus.
	4	Figure reflects title count.
	19	Includes: ILL services, $22,501; memberships, $101,950; bibliographic utilities, $129,918; computer-based reference services, $51,956.
	22-23	Salary breakdown is estimated.
	25	Includes 1.0 FTE professional, 3.8 FTE support staff, and 3.67 est. FTE student assistants in cost recovery positions and from grants. Does not include est. 0.96 FTE Graduate Assistant and est. 0.64 FTE student intern.
	26	Includes $582,462 in renovation costs compared to $71,460 reported last year.
	40	Ph.D. fields now includes the School of Public Health.
SUNY-BUFFALO	5-7	Government documents are not included in serial count.
	12-15	Figures are estimated.
	19	Includes memberships ($38,000) and online services ($68,477).
	22, 28	Figure excludes 2.5 FTE and associated salaries for positions with outside library funding.
	25	Excludes federal work-study funding.
	41	1996-97 figure was incorrect.
SUNY-STONY BROOK	19	Includes some expenditures for bibliographic utilities and automation, literature searching, memberships, and binding.
	27	Includes income funds and grants. Excludes $523,759 special rehabilitation appropriation.
	34	Figure for main library based on sampling, figure for Medical Library reflects actual count.
SYRACUSE		Basis of volume count is bibliographic.
		Withdrawals related to reclassification of Dewey materials and duplicate and superceded publications.

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INSTITUTION	QUESTION NUMBER	NOTES
SYRACUSE (cont.)	8-10	Figures based on estimates.
	11	Includes University Archives materials that are housed in the Syracuse University Library. Due to the physical location of the materials, in addition to the fact that Special Collections Reference staff do not distinguish between archives and special collections, the materials were counted here, which differs from previous years. Excludes Law Library.
	16,17,20,27	Includes expenditures for volumes purchased to support programs abroad.
	22	Includes $172,718 from Computing and Media Services (CMS) in professional and technical support.
	26	Includes $140,107 in CMS support for library-related expenditures (non-personnel).
	28	Includes: 3 FTE CMS positions assigned to library support; 2 FTE professional positions, temporary or granted support; 1 grant funded support position.
	34	Figure based on sampling.
	40	Excludes 264 J.D.s awarded by the Law School.
	45, 46	Includes Law School graduate students.
TEMPLE		Includes Paley Library, five departmental science libraries, the Engineering and Architecture Library, Zahn Library, and the Blockson African American Collection, and the Law Library.
		Includes Tyler School of Art and Temple University Ambler branch campuses, and Health Sciences Center Libraries.
TENNESSEE		Includes the Social Work branch campus library in Nashville.
		Volumes held June 30, 1997 revised to 2,226,982.
	3	Figure reflects fluctuating withdrawal patterns.
	8	1996-97 figure was incorrect.
	18	Increase due to the fact that this figure was not available in previous year.
	27	Includes $267,008 from Restricted Accounts (e.g., endowed funds).
	35-36	Loan periods were expanded for students.
TEXAS		All figures are as of August 31, 1998 and include the General Libraries, the Center for American History, the Tarlton Law Library, and the Humanities Research Center.
		Expenditures for Library materials increased due to special funding. Special funding was also provided to increase staff salaries and repair and replace equipment.
	4	Includes 51,622 monographic volumes purchased by the General Libraries, 388 by the Center for American History, 2,549 by the Tarlton Law Library, and 1,350 by the Humanities Research Center.
	5	Includes 20,697 current serials purchased (19,955 print and 742 electronic) by the General Libraries, 90 by the Center for American History, 6,529 (6,527 print and 2 electronic) by the Tarlton Law Library, and 218 by the Humanities Research Center.

INSTITUTION	QUESTION NUMBER	NOTES
TEXAS (cont.)	6	Includes 21,111 serials received but not purchased (20,880 print and 231 electronic) by the General Libraries, 200 by the Center for American History, 3,622 by the Tarlton Law Library, and 48 by the Humanities Research Center.
	16	Includes expenditures for monographs of $3,811,398 by the General Libraries, $35,000 by the Center for American History, $124,262 by the Tarlton Law Library, and $123,932 by the Humanities Research Center.
	17	Includes expenditures for current serials of $4,280,532 by the General Libraries, $3,500 by the Center for American History, $753,111 by the Tarlton Law Library, and $10,595 by the Humanities Research Center.
	18	Includes expenditures for other materials of $399,252 by the General Libraries, $78,920 by the Tarlton Law Library, and $639,213 by the Humanities Research Center.
	19	Includes expenditures for miscellaneous materials of $3,837 by the General Libraries and $43,618 by the Tarlton Law Library.
	20	Includes total expenditures for library materials of $8,495,019 by the General Libraries, $38,500 by the Center for American History, $999,911 by the Tarlton Law Library, and $773,740 by the Humanities Research Center.
	24	Includes federal work-study funds.
	31	Includes 3.0 FTE staff hired on grant funds.
	39	Includes Ed.D. degrees.
TEXAS A&M		All figures are as of August 31, 1998.
		Medical Library is a separate academic entity.
		Includes Business and Agricultural Library, the Technical Reference Center (TRS) for Architecture, and a branch library at Galveston.
		Increases in output measures due to a significant budget increase in the past year.
		Volumes held June 30, 1997 revised to 2,458,038 due to 10,444 volumes added from the Technical Reference Center in the College of Architecture for the first time.
		Basis of volume count is bibliographic.
	6	Figure estimated.
	9-10	Figures unavailable for branch library.
	13	Archival photographs and slides in the Technical Reference Center, College of Architecture, counted and reported for the first time.
	27	Beginning this year the figure includes the Technical Reference Center in the College of Architecture. Includes increase in funding from the institution of a library use fee and an additional university funding for furnishings and materials.
	28	Includes librarians, other faculty, several categories of non-librarian professionals, and graduate assistants.
	35-36	Figure includes pickup statistics from Evans.

INSTITUTION	QUESTION NUMBER	NOTES
TEXAS TECH		All figures as of August 31, 1998.
		Includes Health Science Libraries at the Amarillo-Harrington, El Paso, and Odessa branch campuses. Includes Architecture Branch.
		Health Sciences Center reports Bibliographic count.
	1	Used formula of 10 traditional volumes per foot to calculate government documents at the main library.
	5	Increase in number of current serials purchased due to counting electronic serial titles acquired as part of an aggregate package.
	19	Includes: Bibliographic Utilities ($19,340); Dialog, Medlars, etc. ($4,004); Book Detection Security System ($3,985); Reference Update ($5,950); OVID ($21,775); Micromedex ($62,334); Interlibrary Loan ($73,335).
	22	Temporary vacancies in professional positions were filled to reflect a full staff.
	35	Figures had been over reported in the past.
TORONTO		All figures are as of April 30, 1998.
		Includes all University of Toronto Libraries. By a 1996 Ontario government decision, the Ontario Institute for Studies in Education (OISE) was merged with the University of Toronto. The OISE Library is now part of the UT library system and is included in this report.
		The federated libraries budgets are under the authority of the University President and the libraries are located on the UT campus.
		Other main campus libraries include Architecture, Astronomy, Business, Chemistry, Criminology, Dentistry, Earth Sciences, Education (OISE), Engineering, Fine Art, Industrial Relations, Innis College, Law, Mathematics, Music, New College, Physics, St. Michael's College, Trinity College, University College, Victoria College and Zoology.
		All figures include Erindale and Scarborough campus libraries as in previous years.
		Volumes held June 30, 1997 revised to 8,456,905.
	1-4	Includes monographic series and Government documents.
	5-7	Serial subscriptions include licensed electronic journals.
	9	Included in Microform units (8).
	11	1997-98 figure includes adjustment due to recount in meters converted at 3.2808 ft/m.
	19	Included in monograph expenditures (16) and serials expenditures (17).
	16-27	Expenditures reported in Canadian dollars: (16) $7,790,327; (17) $9,093,900; (18) 1,707,982; (19) U/A; (20) $18,592,209; (21) $407,620; (22) $10,158,767; (23) $13,501,713; (24) $2,759,789; (25) $26,420,269; (26) $5,751,496; (27) $51,171,594.
	22-25	Excludes fringe benefits (Can $4,404,876).
	26	Excludes Restricted Funds (Can $29,453).
	32-33	Central library (881 sessions, 6,388 participants); Total library system (1,186 sessions, 13,412 participants).

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INSTITUTION	QUESTION NUMBER	NOTES
TORONTO (cont.)	34	Central library (336,160); Total library system (594,556). Figure reported represents the total library system and not just the Central Library.
	38	Figure includ[illegible]ll libraries. Previous[illegible]ure was for central libraries only.
	41	Revised figure from University 199[illegible]book.
TULANE	5-7	Government documents are not included in serial count.
	11	Figure corrected from previous years.
	22	Increase due to an increase in librarians' salaries.
	26	Increase due to the purchase of a new library management system, hardware and software.
	38	Decrease due to staff vacancies.
	40	Increase due to the addition of several new programs within the Medical Library.
	42-45	Figures corrected from previous years.
UTAH	18	Increase due to the fact that for the first time, the Marriott Library has separated out the cost of databases and used this line to report those expenditures ($345,850 for Marriott only). An additional $182,865 was reported for the University libraries share of databases purchased as a state wide initiative.
VANDERBILT		Main campus libraries included are: Biomedical, Ce[illegible]l, Science an[illegible]neering, Di[illegible] Education, Management, M[illegible]ic, Law, Special Collecti[illegible]ns, and Univers[illegible] Archives.
	2	Large increase resulted from delays in acquisitions in the previous year as a result of new system implementation.
	5	Reflects more accurate count from new automated system.
	42	Full-time instructional faculty figure includes clinical faculty.
VIRGINIA	5-7	Includes Government document serials. Includes monographic series in the Health Sciences and Law Libraries.
	8	Includes Government documents in microformats.
	9	Includes all U.S., international, and Virginia state documents in separate documents collections, excluding those represented by OPAC records.
	22-25	Includes fringe benefits.
VIRGINIA TECH	3	Decrease due to weeding project.
	9	Effective February 1996, no retention in SuDocs; all documents cataloged.
	16	Includes firm order approval and blanket-order monographs.
	18	Includes only AV and microformats; electronic resources reported in serials expenditures (17).

INSTITUTION	QUESTION NUMBER	NOTES
VIRGINIA TECH (cont.)	19	Includes bibliographic utilities, literature searching, membership dues (ARL, CNI, CRL), interlibrary loans, postage and handling, and VPI dissertation filming.
WASHINGTON		Volumes held June 30, 1997 revised to 5,714,965 due to correction in HSLIC count.
		Medical Library includes: Social Work Library, Harborview Medical Center Library, and National Network/ Libraries of Medicine (Regional Medical Library).
		Excludes Bothell and Tacoma branch campuses.
	4-7, 10-15, 33-34, 39-45	Figures are unavailable for Law Library.
	5-6, 35, 39-45	Figures available for Main Library only.
	18, 34	Figures available for Medical Library only.
	19	Figures unavailable for Main Library.
	22	Includes all librarians (including Head Law librarian) and professional staff.
	23	Law Library reports 23,444 initial circulation.
	28	Includes Head Law librarian (Faculty Status) 1.00 FTE, 1.95 FTE part-time librarians, and 2.00 FTE professional staff.
	34	Medical Library figure based on sampling.
	35	Figure represents Law Library only.
WASHINGTON STATE		Includes Holland Library, Owen Science and Engineering Library, Brain Education Library, Architecture Library, Fischer Agricultural Sciences Library, Veterinary Medical/Pharmacy Library.
		Includes branch campuses at Spokane, Tri-Cities, Vancouver, the Intercollegiate Center for Nursing Education (Spokane), and the WSU Energy Library in Olympia.
		Volumes held June 30, 1997 revised to 1,924,310 due to the discovery of a typographical error in the previously reported figure.
	12-15	Figures include Manuscripts, Archives, and Special Collection items in addition to the Media Materials Services collection.
	16-27	Figures includes expenditures for CD-ROMs, microforms, Manuscripts and Archives, and Special Collection items.
	18	Includes Media Materials Services films, videos, and compact disks.
	19	Includes CRL membership dues.
WASHINGTON U.-ST. LOUIS		Volumes held June 30, 1997 revised to 3,235,005 due to the discovery of a typographical error in the previously reported figure.
	5-7	Government documents are not included in serial count. Separate figures not available for Law Library for (5) and (6).
	10	Actual physical count of items. 1996-97 figure was for titles; 1997-98 title count is 2,999.

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INSTITUTION	QUESTION NUMBER	NOTES
WASHINGTON U.-ST. LOUIS (cont.)	11	Includes linear footage estimate for manuscript collection for the first time in 1997-98.
	19	Separate figures not available for Law and Social Work libraries. Includes for Central Library: Remote searching ($265,908); Membership ($116,028); ILL/Document delivery ($71,785); Bibliographic utilities ($250,000).
	20, 28-31	Includes telecommunications staff in Medical Library (paid from library budget). Staff reports to the Director of the Medical Library. Excludes Information Resources staff in Law Library reported in previous fiscal year. Excludes Information Technology staff in Social Work Library reported in 1996-97.
	26	Excludes $2,172,010 for buildings for the first time, and $1,786,214 for fringe benefits.
	32	Figures not available for Law and Business Libraries.
	34	Figures not available for Business Library.
	35	Figures reported for 1996-97 included period from January to June only for libraries under central administration. Current figure includes the entire fiscal year for these libraries.
	37	Figure reflects 30% decrease in loans provided by Central Library since a new fee structure was implemented in 1996-97.
	40	The university has improved its method of calculating the number of degree fields so this number, though substantially increased, is more accurate. Previous reports list the number of Ph.D. fields in which degrees were actually awarded as opposed to the number of fields to which a candidate can receive a Ph.D.
WATERLOO		All figures are as of April 30, 1998.
	16-27	Expenditures reported in Canadian dollars: (16) $971,563; (17) $3,286,263; (18) U/A; (19) $287,978; (20) 4,545,804; (21) $88,079; (22) $2,024,338; (23) $3,156,526; (24) $417,928; (25) $5,598,792; (26) $1,217,360; (27) $11,450,035.
WAYNE STATE		All figures are as of September 30, 1998.
		Includes Reuther Archives of Labor and Urban Affairs.
		Medical and Law Library statistics cannot be disaggregated from the main statistics because the Medical and Law collections are an integral part of the main library.
		Basis of volume count is bibliographic.
	1-7	Includes Government documents based on sampling.
	7, 11, 13-14	Estimated.
	18	Figure reported under monograph expenditures (16) and serial expenditures (17).
	39	Includes Ed.D. degrees.
WESTERN ONTARIO		All figures are as of April 30, 1998.
	2-3	Includes 11,296 volumes from donated CSLIS collection. Also, withdrawals were not at the same level as last year due to the merger of the Curriculum Resource Center into the Education Library and the merger of the Engineering Library into the Allyn and Betty Taylor Library.

INSTITUTION	QUESTION NUMBER	NOTES
WEATERN ONTARIO (cont.)	7	Does not include some titles received but not set up yet in the database. These titles are in the process of being identified and records set.
	16-27	Expenditures reported in Canadian dollars: (16) $1,599,559; (17) $5,237,699; (18) U/A; (19) $339,874; (20) $7,177,132; (21) $192,825; (22) U/A; (23)U/A; (24) $392,514; (25) $7,009,626; (26) $838,255; (27) $15,217,838.
	25	Decrease due to 1996-97 figure including a one-time payout for staff taking early retirement.
	36	Includes circulation of reserve material.
	42	1996-97 figure revised to 17,798; only the undergraduates were counted.
	43	Figure reported is FTE. The actual number is 3,966.
	45	Figured reported is FTE. The actual number is 448.
WISCONSIN		Includes the libraries of the General Library System: Memorial, College-Undergraduate, Music, Art, Business, Social Science, Geography, Social Work, Biology, Chemistry, Geology, Mathematics, and Physics libraries.
		Includes the Steenbock Agricultural and Life Sciences Library, the Wendt Engineering Library, the Middleton Health Sciences and Pharmacy Libraries, the School of Education Library, the Law Library and the School of Library and Information Studies Library.
		Also includes departmental libraries: Primate, Map, Limnology and Plant Pathology.
	1	Includes maps not included in Cartographic (12).
	7-9	Some government document serials are assigned Library of Congress numbers and are in the serials count.
	12	Includes maps not included in Volumes held (1).
	32-33	Excludes 6,566 uses of self-instructional CAI program.
	34	Figure based on sampling.
YALE	4	1996-97 figure revised to 111,921.
	5	1996-97 figure was higher than actual.
	5, 17	Low unit cost per serial is believed to be accurate due to Yale's nature of purchasing allotment (Science and Technology as compared to Humanities).
	34	Includes all queries.
YORK		All figures are as of April 30, 1998.
		Includes Glendon Campus.
	6	Count unavailable.
	7	Increase due to the change in the way that the E-journals were counted.
	13	Additional holdings of 1,147 linear feet.

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INSTITUTION	QUESTION NUMBER	NOTES
YORK (cont.)	16-27	Expenditures reported in Canadian dollars: (16) $1,743,620; (17) $3,607,799; (18) $112,683; (19) $295,108, (20) $5,759,210; (21) $200,026; (22) $3,208,176; (23) $4,049,627; (24) $781,849; (25) $8,039,652; (26) $1,823,204; (27) $15,822,092.
	26-27	Includes Gifts-in-Kind donations as both revenue and expense.

APPENDIX A

ARL MEMBER LIBRARIES

The Association of Research Libraries (ARL) represents the interests of 122 libraries that serve major North American research institutions. ARL operates as a forum for the exchange of ideas and as an agent for collective action to influence the forces affecting the ability of these libraries to meet the future needs of scholarship. The ARL Statistics and Measurement Program is organized around identifying, collecting, analyzing, and distributing quantifiable information describing the characteristics of research libraries. The program offers publications and special member services, and collaborates with other national and international library statistics programs. Data collected include salaries, library holdings, expenditures, staff, interlibrary lending, and preservation activities.

The members of the Association are:

Institution	Category	Full Name of Institution	Location
Alabama	S	University of Alabama	Tuscaloosa, Alabama
Alberta	C	University of Alberta	Edmonton Alberta
Arizona	S	University of Arizona	Tucson, Arizona
Arizona State	S	Arizona State University	Tempe, Arizona
Auburn	S	Auburn University	Auburn, Alabama
Boston	P	Boston University	Boston, Massachusetts
Brigham Young	P	Brigham Young University	Provo, Utah
British Columbia	C	University of British Columbia	Vancouver, British Columbia
Brown	P	Brown University	Providence, Rhode Island
California, Berkeley	S	University of California, Berkeley	Berkeley, California
California, Davis	S	University of California, Davis	Davis, California
California, Irvine	S	University of California, Irvine	Irvine, California
California, Los Angeles	S	University of California, Los Angeles	Los Angeles, California
California, Riverside	S	University of California, Riverside	Riverside, California
California, San Diego	S	University of California, San Diego	La Jolla, California
California, Santa Barbara	S	University of California, Santa Barbara	Santa Barbara, California
Case Western Reserve	P	Case Western Reserve University	Cleveland, Ohio
Chicago	P	University of Chicago	Chicago, Illinois
Cincinnati	S	University of Cincinnati	Cincinnati, Ohio
Colorado	S	University of Colorado	Boulder, Colorado
Colorado State	S	Colorado State University	Fort Collins, Colorado
Columbia	P	Columbia University	New York, New York
Connecticut	S	University of Connecticut	Storrs, Connecticut
Cornell	P	Cornell University	Ithaca, New York
Dartmouth	P	Dartmouth College	Hanover, New Hampshire
Delaware	S	University of Delaware	Newark, Delaware
Duke	P	Duke University	Durham, North Carolina
Emory	P	Emory University	Atlanta, Georgia
Florida	S	University of Florida	Gainesville, Florida
Florida State	S	Florida State University	Tallahassee, Florida
George Washington	P	George Washington University	Washington, DC
Georgetown	P	Georgetown University	Washington, DC
Georgia	S	University of Georgia	Athens, Georgia
Georgia Tech	S	Georgia Institute of Technology	Atlanta, Georgia
Guelph	C	University of Guelph	Guelph, Ontario
Harvard	P	Harvard University	Cambridge, Massachusetts
Hawaii	S	University of Hawaii	Honolulu, Hawaii
Houston	S	University of Houston	Houston, Texas
Howard	P	Howard University	Washington, DC
Illinois, Chicago	S	University of Illinois at Chicago	Chicago, Illinois
Illinois, Urbana	S	University of Illinois at Urbana	Urbana, Illinois
Indiana	S	Indiana University	Bloomington, Indiana
Iowa	S	University of Iowa	Iowa City, Iowa
Iowa State	S	Iowa State University	Ames, Iowa
Johns Hopkins	P	Johns Hopkins University	Baltimore, Maryland
Kansas	S	University of Kansas	Lawrence, Kansas
Kent State	S	Kent State University	Kent, Ohio
Kentucky	S	University of Kentucky	Lexington, Kentucky
Laval	C	Laval University	Quebec
Louisiana State	S	Louisiana State University	Baton Rouge, Louisiana
McGill	C	McGill University	Montreal, Quebec
McMaster	C	McMaster University	Hamilton, Ontario
Manitoba	C	University of Manitoba	Winnipeg, Manitoba
Maryland	S	University of Maryland	College Park, Maryland
Massachusetts	S	University of Massachusetts	Amherst, Massachusetts
MIT	P	Massachusetts Institute of Technology	Cambridge, Massachusetts

S=U.S. public university P=U.S. private university N=U.S. nonuniversity library C=Canadian university X=Canadian nonuniversity

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Institution	Category	Full Name of Institution	Location
Miami	P	University of Miami	Coral Gables, Florida
Michigan	S	University of Michigan	Ann Arbor, Michigan
Michigan State	S	Michigan State University	East Lansing, Michigan
Minnesota	S	University of Minnesota	Minneapolis, Minnesota
Missouri	S	University of Missouri	Columbia, Missouri
Nebraska	S	University of Nebraska-Lincoln	Lincoln, Nebraska
New Mexico	S	University of New Mexico	Albuquerque, New Mexico
New York	P	New York University	New York, New York
North Carolina	S	University of North Carolina	Chapel Hill, North Carolina
North Carolina State	S	North Carolina State University	Raleigh, North Carolina
Northwestern	P	Northwestern University	Evanston, Illinois
Notre Dame	P	University of Notre Dame	Notre Dame, Indiana
Ohio	S	Ohio University	Athens, Ohio
Ohio State	S	Ohio State University	Columbus, Ohio
Oklahoma	S	University of Oklahoma	Norman, Oklahoma
Oklahoma State	S	Oklahoma State University	Stillwater, Oklahoma
Oregon	S	University of Oregon	Eugene, Oregon
Pennsylvania	P	University of Pennsylvania	Philadelphia, Pennsylvania
Pennsylvania State	S	Pennsylvania State University	University Park, Pennsylvania
Pittsburgh	S	University of Pittsburgh	Pittsburgh, Pennsylvania
Princeton	P	Princeton University	Princeton, New Jersey
Purdue	S	Purdue University	West Lafayette, Indiana
Queen's	C	Queen's University	Kingston, Ontario
Rice	P	Rice University	Houston, Texas
Rochester	P	University of Rochester	Rochester, New York
Rutgers	S	Rutgers University	New Brunswick, New Jersey
Saskatchewan	C	University of Saskatchewan	Saskatoon, Saskatchewan
South Carolina	S	University of South Carolina	Columbia, South Carolina
Southern California	P	University of Southern California	Los Angeles, California
Southern Illinois	S	Southern Illinois University	Carbondale, Illinois
Stanford	P	Stanford University	Stanford, California
SUNY-Albany	S	State University of New York at Albany	Albany, New York
SUNY-Buffalo	S	State University of New York at Buffalo	Buffalo, New York
SUNY-Stony Brook	S	State University of New York at Stony Brook	Stony Brook, New York
Syracuse	P	Syracuse University	Syracuse, New York
Temple	S	Temple University	Philadelphia, Pennsylvania
Tennessee	S	University of Tennessee	Knoxville, Tennessee
Texas	S	University of Texas	Austin, Texas
Texas A&M	S	Texas A&M University	College Station, Texas
Texas Tech	S	Texas Tech University	Lubbock, Texas
Toronto	C	University of Toronto	Toronto, Ontario
Tulane	P	Tulane University	New Orleans, Louisiana
Utah	S	University of Utah	Salt Lake City, Utah
Vanderbilt	P	Vanderbilt University	Nashville, Tennessee
Virginia	S	University of Virginia	Charlottesville, Virginia
Virginia Tech	S	Virginia Polytechnic Institute & State University	Blacksburg, Virginia
Washington	S	University of Washington	Seattle, Washington
Washington State	S	Washington State University	Pullman, Washington
Washington U.-St. Louis	P	Washington University	St. Louis, Missouri
Waterloo	C	University of Waterloo	Waterloo, Ontario
Wayne State	S	Wayne State University	Detroit, Michigan
Western Ontario	C	University of Western Ontario	London, Ontario
Wisconsin	S	University of Wisconsin	Madison, Wisconsin
Yale	P	Yale University	New Haven, Connecticut
York	C	York University	North York, Ontario
Boston Public Library	N	Boston Public Library	Boston, Massachusetts
Canada Inst. for SciTech	X	Canada Inst. for Scientific & Technical Information	Ottawa, Ontario
Center for Research Libs.	N	Center for Research Libraries	Chicago, Illinois
Library of Congress	N	Library of Congress	Washington, DC
Linda Hall Library	N	Linda Hall Library	Kansas City, Missouri
Natl. Agricultural Lib.	N	National Agricultural Library	Beltsville, Maryland
Natl. Library of Canada	X	National Library of Canada	Ottawa, Ontario
Natl. Library of Medicine	N	National Library of Medicine	Bethesda, Maryland
New York Public Library	N	New York Public Library	New York, New York
New York State Library	N	New York State Library	Albany, New York
Smithsonian Institution	N	Smithsonian Institution	Washington, DC

S=U.S. public university P=U.S. private university N=U.S. nonuniversity library C=Canadian university X=Canadian nonuniversity

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APPENDIX B

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